



3024-119-SEQ.ST25
SEQUENCE LISTING

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<120> HIGH EFFICIENCY GENE TRANSFER AND EXPRESSION IN MAMMALIAN CELLS
BY A MULTIPLE TRANSFECTION PROCEDURE OF MAR SEQUENCES

<130> 3024-119

<140> 10/595,495

<141> 2006-04-24

<150> PCT/EP2004/011974

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<150> US60/513,574

<151> 2003-10-24

<160> 241

<170> PatentIn version 3.3

<210> 1

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(320)

<223> MAR of human chromosome 1, nt from 36686 to 37008

<220>

<221> misc_binding

<222> (1)..(320)

<223> MAR of human chromosome 1, genomic contig; 36686 to 37008

<400> 1

ttatattatg ttgttatata tattatatta tgttattaga ttatattatg ttgttatatt 60

atataataat attatattat atattatata ttatattata taatatataa taatattata 120

taattatata ttacattata taatatataa taatattata taattatata ttacattata 180

taatataata taatattata taataatata taattatata atatataata atattatata 240

atattatata atattatata atatataaat atataataat atatattata ttatataata 300

gtatataata ttatataata 320

<210> 2

<211> 709

3024-119-SEQ.ST25

<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(709)
<223> MAR of human chromosome 1, nt from 142276 to 142984

<220>
<221> misc_binding
<222> (1)..(709)
<223> MAR of human chromosome 1, genomic contig; 142276 to 142984

<400> 2
tacaatatat tttctattat atatattttg tattatatat aatatacaat atattttcta 60
ttatatataa tatattttgt attatatata ttacaatata ttttgtatta tataatatat 120
aatacaatat ataatatatt gtattatata ttatataata caatatatta tatattgtat 180
tatatattat atataaact atataatata ttgtattata tattatatat aatactatat 240
aatatatttt attatatatt atatataata caatatataa tatattgtat tataatacaa 300
tgtattataa tgtattatat tgtattatat attatatata atacaatata taataatata 360
ttataatata taataataat ataataat aataatatat attgtattat atattatata 420
atacaatata taatatattg tattatatat attttattac atataatata taatacat 480
tataatatat tttgtattat atataatata ttttattatg tattatagat aatatatttt 540
attatatatt atatataata caatatataa tatattttgt attgtatata atatataata 600
caatatataa tatattgtat tatatataat attaatatat tttgtattat atatttatat 660
tttatattat aattatgttt tgcattatat atttcatatt atatatacc 709

<210> 3
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(409)
<223> MAR of human chromosome 1, nt from 1368659 to 1369067

<220>
<221> misc_binding
<222> (1)..(409)
<223> MAR of human chromosome 1, genomic contig; 1368659 to 1369067

<400> 3
tacacataaa tacatatgca tatatattat gtatatatac ataaatacat atgcatatac 60
attatgtata tatacataaa tacatatgca tatacattat gtatatatac ataaatacat 120
atgcatatac attatgtata tatacataaa tacatatgca tatacattat gtatatatac 180

3024-119-SEQ.ST25

ataaatacat atgcatatac attatgtata tatacataaa tacatatgca tatacattat	240
gtatatatac ataaatacat atgcatatat tatatacata aattatatta tatacataat	300
acatacatat atattatgtg tatatatata taaatacata tacatatatt atgtgtatat	360
atacatgata catatacata tattatgtat atatatacat aaatacata	409

<210> 4
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(394)
 <223> MAR of human chromosome 1, genomic contig; 2839089 to 2839482

<400> 4	
tatgtatata tacacacata tgtatatata cacacatatg tatatacgta tatatgtata	60
tatacacaca tatgtatata cgtatatatg tatatatata cacatatgta tatacgtata	120
tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catatgtata	180
tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catgtgtata	240
tatatataca catatgtata tatgtatata tacacacata tgtatatatg tgtatgtata	300
tatacacaca tatgtatata tacacacata tatgtatata tacacacata cttatatata	360
cacatatata tgtatatata cacatatgta taca	394

<210> 5
 <211> 832
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(832)
 <223> MAR of human chromosome 1, genomic contig; 1452269 to 1453100

<400> 5	
tatattacta tatatacaat atacatatta ctatatatac catgtattac tatatatatc	60
tactatatat attactatat atacaaaata tatattacta tatatacaat atacatatta	120
ctatatatac catatattac tatatatatc tactatatat attactatat atacaaaata	180
tatattacta tatatactat atattactgt atatacaata tatattacta tatatatact	240
atatattact atatatacac tatatattac tatatatata caatatatat attactatat	300
atacacaatg tatataacta tatatacaat atatattact atatatacta tatatattac	360
tatacatact atatattact ctatatatac aatatatata ttacaatata tactacatat	420
tactacatat actttatata ttactatata tactatatat tactgtatat acaatatata	480

3024-119-SEQ.ST25

ttactaaata tacacaatat atattactat atatacacia tatatatatt actatatata	540
cacattatat atgactatat atacacacta tatatattac tatatatata caatatataa	600
ctatatatac acagtataca tattactata tatacacaat atatatatta ctatatatac	660
actatatatt actatatata cacaatatat attactctat gtatacacta tatatattac	720
tatatataca gaatatatat aactatatat acactatatt actatatata ctatatatta	780
ctatatgtac tatatatatt actatatata ctatatatta ctatatatac ac	832

<210> 6
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(350)
 <223> MAR of human chromosome 1, genomic contig; 831495 to 831844

<400> 6	
aatatataat atataaatat taatatgtat tatataatat atattaatat attatattat	60
attactatat aaataatatt aatatattat attaaaatat taataaatat atcatattaa	120
atattatatt aattaaatat taataaatat attatattaa tatatttata tattaaacct	180
ataacatatg catatactta tttatatata acatgcatgt acttatttat atatacaata	240
tatatttata tattatataa tatattatat gtattttatat attatatatc atatattata	300
tgtatttata tattatatat catataatat atatatttat attatatata	350

<210> 7
 <211> 386
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(386)
 <223> MAR of human chromosome 1, genomic contig; 1447225 to 1447610

<400> 7	
acatttaatt taattatata ctgctatata taattaaatc tatatatcta tataacttat	60
aattttatttt aatttaatta tatatactat atagttatat atacatatat gtaattatat	120
atagtataat tatagtatat atgtatatat aatgtaagta aatatatagt atatatttat	180
atatactata tattttatata tatgtcttta tatatactaa tatatatata catatgtaat	240
atgtacatat ggcatatat ttatagtgtat tatatacata tatgtaatat atatagtaat	300
atgtaaatat atagtacata ttttaattata tggtaatatata tacacatata tgtaatatgt	360

gtattatagt acatatttta tagtat

386

<210> 8
 <211> 585
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(585)
 <223> MAR of human chromosome 1, genomic contig; 4955365 to 4955949

<400> 8
 atacacacat atacacatat gtacgtatat atactatata tacacacata tacacatatg 60
 tacgtatata tactatatat acacacatat acacatatgt acgtatatat actatatata 120
 cacacatata cacatatgta cgtatatata ctatatatac acacatatac acatatgtac 180
 gtatatatac tatatatata cacatatata catatgtacg tatatattat atatacacac 240
 atatacacat atgtacgtat atatactata tatacacaca tatacacata tgtacgtata 300
 tatactatat atacacacat atacacatat gtacgtatat atactatata tacacacata 360
 tacacatatg tacgtatata tactatatat acacacatat acacatatgt acgtatatat 420
 actatatata cacacatata cacatatgta cgtatatata ctatatatac acacatatac 480
 acatatgtac gtatatatac tatatatata cacatatata catatgtacg tatatatact 540
 atatataccc atacacatac gtatatatcg acatatatat acgta 585

<210> 9
 <211> 772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(772)
 <223> MAR of human chromosome 1, genomic contig; 5971862 to 5972633

<400> 9
 agtaaacata tatatagtaa atatatatag tgtatatata gtaaatatat atagtgcata 60
 tatatagtcg atatatatag tgtatatata gtaaatatat agtgtatata tatagtaa 120
 atatatatgtg tatatatagt aaatatatat agtaaataata tatatactat atatagtaaa 180
 tatatatata ctatatatag taaatatata tatagtatat atatagtaaa tatatatata 240
 gtatatatat agtaaataata tatatagtat atatatatga aatatatata tagtatatat 300
 agtaaataata tatagtatat atatagtaaa tatatatata gtatatatat agtaaataata 360
 tatatagtat atatatatga aatatatata tagtatatat atagtaaata tatatagtat 420
 atatatatga aatatatata gtatatatat agtaaataata tatagtatat atatagtaaa 480

3024-119-SEQ.ST25

tatatataca ctgtatatat atagtaaata tatatacact gtatatatat agtaaata	540
tatacactgt atatatatag taaatatata tacactgtat atatatagta aatatatata	600
cactgtatat acatagtaaa tatatataca ctgtatatac atagtaaata tatatacact	660
gtatatacat agtaaata tatacactgt atatacatag taaatatata tacagtgtat	720
atacatagta aatatatata cagtgtatat acatagtaaa tatatataca gt	772

<210> 10
 <211> 304
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(304)
 <223> MAR of human chromosome 1, genomic contig; 6221897 to 6222200

<400> 10	
atatataata tatataatta tattatatat aatatataat atatataatt atattatata	60
ttatatataa tatatttatat attatatata taatatatat tatatattaa atatatatta	120
tatatataat atatattata tattaaatat atattatata tataatatat attatatata	180
atatatataa tatatattat atatatatta tatatttatat atatatatta tatatatata	240
atatatataa tatatattat atataatata tattatatat atataatata tataatatat	300
atta	304

<210> 11
 <211> 311
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(311)
 <223> MAR of human chromosome 1, genomic contig; 9418531 to 9418841

<400> 11	
tatatataat atttatatat aatattcatg ttttatata taaatattta tatatttata	60
tataaatatt tatatattta tatataaata tttatatatt tatatataat atttatacat	120
tatatataat atttatatat tatatataat atttatatat aatatttata tattatatat	180
aatatttata ttttatatg tataatatat attttatata tgtatgtata atatataatt	240
tatatatgta tgtataatat attttatata tgtatgtata atatattatt atatataata	300
tataatttat a	311

<210> 12

3024-119-SEQ.ST25

<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(302)
<223> MAR of human chromosome 1, genomic contig; 15088789 to 15089090

<400> 12
atataatata tatattatat atataaatat atataaatat ataacatata tattatatat 60
aaatatatat aaatatataa catatatatt atatatataa atatatataa atatataaca 120
tatatattat atatataaat atatataaat atataacata tatattatat atataaatat 180
atattatata tttatatata taatatatat aaatatataa tatatattta tatatataat 240
atatataaat atataatata tatatttata tataatatat ataaatatat aatatataat 300
at 302

<210> 13
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(461)
<223> MAR of human chromosome 1, genomic contig; 6791827 to 6792287

<400> 13
tatataatat atatttatata tacacatata taatatatat tatatatata catatataat 60
atatattata tatacacata tataatatat attatatata cacatatata atatatatta 120
tatatacaca tatataatat atatttatata tacacatata taatatatat tatatatata 180
catatataat atatattata tatacacata tataatatat attatatata cacatatata 240
atatatatta tatatacaca tatgtaatat atattatata cacacatata atatatatta 300
tatacacata tataatatat attatatata catatataat atatattata tatacacata 360
tataatatat attatatata cacatatata atatatatta tatatacaca tataatatat 420
aatatatata catatataat atatatatta tatatgcaca t 461

<210> 14
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(572)
<223> MAR of human chromosome 1, genomic contig; 163530 to 164101

3024-119-SEQ.ST25

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<400> 14
atattataat tatatatatt atatataatt atataaaata tatattataa ttatatatat      60
tttatataat atatatatta taattaatat attatatata atatatatat tatatataat      120
atatatatta tatatattat atataatata tataatatat ataatatata atataatata      180
tatattatat ataatatata atatatatata tatattataa tataatatat ataatatata      240
atataatata tataatatat aatataatat ataatatata atatatatata tatataatat      300
aatatataat atatataata tataatataa tatataatat atataatata ttataatata      360
atatatatata tatataatat aatatatata atatataata taatatataa tatataatat      420
atatttaata tatttattaa ttatttggtta tatatttatt aatatataat atataatata      480
tttaatatat tataactata tattatatta taattatata tattatatat atacaattat      540
aattatatat tatatatact tataatatat at                                     572
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<210> 15
<211> 357
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_binding
<222> (1)..(357)
<223> MAR of human chromosome 1, genomic contig; 1842332 to 1842688
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<400> 15
tatatctata tatatctata tatatataat atagataata tctatatata taatatagat      60
aatattatct atatataata tagataatat tatctatata taatatagat aatattatct      120
atatataaaa ttatattata tctatatata ttatatatat aaaattatat tatatctata      180
tataatatag ataatatcta tatataaata gataatatct atatatatata tatagatatatt      240
atctatatta tagatataga taatattatc tatattatag atattatcta tatataatat      300
agataatatt atctatatta tatatataat atatctatat tatctataat attatct      357
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<210> 16
<211> 399
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_binding
<222> (1)..(399)
<223> MAR of human chromosome 1, genomic contig; 2309560 to 2309958
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<400> 16
attatatata atatatatta tatattatat atatcaagca gcagatatata tatataatat      60
atataatata tataatatat attgtatatt atataatata taatatatat aatatatatt      120
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3024-119-SEQ.ST25

gtatattata	taatatataa	tatatataat	atatattgta	tattatataa	tatataatat	180
atataatata	tattgtatat	tatataatat	ataatatatg	taatatatta	tgtaatatat	240
tatataatat	atattatata	ttatatataa	tatatattat	atataatata	tattacataa	300
tatattacat	atattacgta	atatatgtta	tatattacat	ataatatata	acatatatta	360
cgtaatatat	gtaatatatt	acataataa	tatacatta			399

<210> 17
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(394)
 <223> MAR of human chromosome 1, genomic contig; 2231759 to 2232152

<400> 17	
atatatactt	ataaattata tacttatata tacttataaa ttatatactt atatatactt 60
ataaattata	tacttatata tacttataaa ttatatactt atatatactt ataaattata 120
tacttatata	tacttataaa ttatatactt atatatactt ataaattata tacttatata 180
tacttataaa	ttatatactt atatataaatt ataaattata tacttatata taattataaa 240
ttatatactt	atatataaatt ataaattata tacttatata taattataaa ttatatactt 300
atatataaatt	ataaattata tacatatata taattataaa ttatatacat atataaattat 360
aaattatata	catatataat tataaattat atac 394

<210> 18
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(387)
 <223> MAR of human chromosome 1, genomic contig; 7406524 to 7406910

<400> 18	
tatattatat	ataatatata ttatatataa tataaataat atatattata tataatatat 60
aaatatata	taatatataa ataatatata atatataata tataaataat atatatata 120
taacatataa	ataatatata taatatataa ataatatata taatatataa ataatatata 180
taatatataa	aaatatataa tatataatac atatataaatt aatatattat attatatatg 240
atacataata	tattatatat aatatattat atgatacata atatattata tagaatatat 300
tatatgatac	ataatatatt atatagaata tattatatga tacataatat attatatgat 360

acataatata ttatatataa tatatta

387

<210> 19
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(370)
 <223> MAR of human chromosome 1, genomic contig; 9399572 to 9399941

<400> 19
 catatatata tatatacaca tatatacaca tatatatata catacatatg tacacatata 60
 tatacacata tgtatacaca tatatacaca tatatacaca catatatata catatatata 120
 cacatatata cacatatata cacatatata cacatatata catatatata catatatata 180
 tatatacaca tatatataat atacacacat atatatacac atatatacac acatatatac 240
 acatatatac acatatatat acacatatat acacatatat acatatatac acatatatat 300
 acatatatac acatatatac atatatacac atatatacat atatacacac atatatacac 360
 atacatatac 370

<210> 20
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(377)
 <223> MAR of human chromosome 1, genomic contig; 12417411 to 12417787

<400> 20
 attatatata atacatataa ttatatattt atatataaat tataataaat acatataatt 60
 atatatttat atataaatta tatataataa atacatataa ttacatatat ttataaatta 120
 taataaatac atataattac atatatttat atatgaatta tatataataa atacatataa 180
 ttatatatat ttatatgtag attatatata aatatatata atttatatat ataataatat 240
 atataattta tatatataat tatatatata ataaatatat ataatttata tatataatta 300
 tatatataat aaatatataa taatatatat aatttatata tataattata tatataataa 360
 atatataataa tttatat 377

<210> 21
 <211> 1524
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>

<221> misc_binding

<222> (1)..(1524)

<223> MAR of human chromosome 1, genomic contig; 1643307 to 1644830

<400> 21

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aatatataaaa aatatataaaa tatatatataa tatatatataa tatataaaaa cataaaaaata	120
tatataaata tatataaata tataaaaaata tataaatata taaatatata aaaatatata	180
aatatataaaa tatatacata aatatatata aatatatata aatatataaaa aatatatata	240
aatatataaaa tatatatataa tatatatataa tatatatataa tatataaaaa tatatatataa	300
tatataaata tataaaaaata tatataaata tataaatata taaatatata taaatatata	360
aatatataaaa taaatatataag tatttatgaa tatatatgaa tatataaata tataaaaaat	420
atatataaat atataaatat atataaatat ataaatatat acatatatac atatataaat	480
aaataaatat aagtatttat gaatatatat gaatatataa atatataaaa aatatatata	540
aatatataaaa tatatatataa tataaatata taaaaatata taaaaatata tataaatata	600
taaatatata taaatatata aatatatata aatatatata aatatataaaa tatatatataa	660
tatatataaaa tatataaata tataaatata tataaatata tataaatata taaatatata	720
aatataaata tataaatata tataaatata tataaatata taaatatata taaatatata	780
taaatatata taaatatata taaatatata aatatatata aatatatata taaatatata	840
taaatatata aatatataaaa tatataaaaa tatataacaa tatataaata tatataaaaa	900
tatataacaa tatataaata taaatatata taaaaatata taacaatata taaatatataa	960
tatatataaaa tatataaata taaatatataa aaatatatat aaatatataa atatatatataa	1020
atatataaat gtataaatat atataaaaaat atataacaat atataaatat ataaatatat	1080
aacaatatat aaatatataa aaatatataa caatatataa atataaatat atataaaaaat	1140
atataacaat atataaatat aaatatatat ataaatatat aaatatataat ataaaaaata	1200
tatataaata tataaatata tatataaata tatataaata tataaatgta taaatatata	1260
taaatatata aatatataaaa aatatataaaa tatatatataa tatatatataa tatataaata	1320
taaatatata aatatatata aatatataaaa tataaatata taaacatata taaatatata	1380
taaataaaca tatataaaga tatataaaga tataaagata tataaatata taaatatata	1440
aagatatata aatatataaaa gatatatataa tatataaaga tatataaata tataaagata	1500
tataaatata atatataaat atat	1524

<210> 22

<211> 664

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(664)
 <223> MAR of human chromosome 1, genomic contig; 1398763 to 1399426

<400> 22
 acacatatat atataaaata tatatatata cacacatata tataaaatat atatatatat 60
 acacatatat ataaaatata tatatacaca catatatata aaatatatat atacacacat 120
 atatataaaa tatatatata cacacatata tataaaatat atatatacac acatatatat 180
 aaaatatata tatacacaca tatatatata atatatatat acacacatat atataaaata 240
 tatatataca cacatatata taaaatatat atatacacac atatatatata aatatatata 300
 tacacacata tatataaaat atatatatat acacatatat aaaatatata tatacacaca 360
 tatataaaat atatatatat acatatatat aaaatatata tatacacata tatataaaat 420
 atatatacac acatatatat aaaatatata tatacacaca tatatatata atatatatat 480
 acacatatat ataaaatata tatatacaca tatatatata atatatatat atacacatat 540
 atataaaata tatatacaca catatatata aagtatatat atacacacat atatataaaa 600
 tatatatata cacatatata taaaatatat atatacacat atatataaaa tatatatata 660
 caca 664

<210> 23
 <211> 1428
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1428)
 <223> MAR of human chromosome 2, genomic contig; 17840365 to 17841792

<400> 23
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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

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3024-119-SEQ.ST25

<210> 27
 <211> 3354
 <212> DNA
 <213> Homo sapiens

<220>
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<400> 27
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tactaaagca ttacaccaat tagttttact cttttccatt cacacatgaa attaatgtaa     1320
tcagaattct gtagattacc taaatcttct gttaacacgt gatatgcagt tcagggttaa     1380
tgtcagttga gttaccaaag cacatacata ctcaccaccc tatccaaatc tacaagcctc     1440
ccagtttgtc ttcactattt tgggttaaatt aatatgaatt cctagatgaa aatttcactg     1500
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3024-119-SEQ.ST25

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aaaattgttc	tgaccaacta	ctaaaggaag	acctactaaa	gatatgccat	ccagcacatt	3300
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3024-119-SEQ.ST25

<211> 677
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(677)
 <223> MAR of chromosome 1 genomic contig; 12803267..12803943

<400> 28
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 tatcatatag tatacattat agtatatatc atatagtata cattatagta tatatcatat 240
 agtatacgta atagtatata tcatatagta tacgtaatag tatatatcat atagtatacg 300
 taatagtata tatcatatag tatacgtaat agtatatatc atatagtata cgtaatagta 360
 tatatcatat agtatacgta atagtatata tcatatagta tacgtaatag tatatatcat 420
 atagtatacg taatagtata tatcatatag tatacgtaat agtatatatc atatagtata 480
 tattatatag tatatatcat atagtatata ttatatagta tatatcatat agtatatatt 540
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 atatatagta tacataa 677

<210> 29
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(332)
 <223> MAR of chromosome 1 genomic contig; 13079684..13080015

<400> 29
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 attatatata ttatatatta taattatata ttatatatt ataatatata tgtaaatata 240
 atatatataa ttaatatata attaaaacta tttaattata tgtatattat atataaatatg 300
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<210> 30
 <211> 479

3024-119-SEQ.ST25

<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(479)
<223> MAR of chromosome 1 genomic contig; 15682296..15682774

<400> 30
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acaagtacat atatatatagta tatatatata caagtacata tatatagtagt atatatatat 180
acaagtacat atatatatagta tatatatata caagtacata tatatagtagt atatatatat 240
acaagtacat atatatatagta tatatatata caagtacata tatatagtagt atatatatat 300
acaagtacat atatatatag tatatatata tacaagtaca tatatatata gtatatatat 360
atacaagtac atatatatag tatatatata tatatacaag tacatatata tagtgtatat 420
atatatatat aagtacatat atatacttgt attagtagtat atatatatat atacaagta 479

<210> 31
<211> 531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(531)
<223> MAR of chromosome 1 genomic contig; 15694611..15695141

<400> 31
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cataataata tataatgaat ataatatata ataatatata taaaatatat aatatatctta 120
ttatgtatta tatattatat atgtttatat ataatatat tatatatggt tatatatatat 180
ataattatat atgtttatat ataatatat tatatatatat atattataga tataatatat 240
aatatactat atattataga tataatatat aatatactat atattataga tataatatat 300
aatatactat atattataga tataatatat aatatactat atattataga tataatatat 360
aatatactat atattataga tataatatat aatatatatt atatattata gatataatat 420
ataatatatt atatattata tctatatata atatattgta tattatatat aatatatattgt 480
atattatata taatatattg tatattatat ataatatatt gtatatattata t 531

<210> 32
<211> 378
<212> DNA
<213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(378)
 <223> MAR of chromosome 1 genomic contig; 886276..886653

<400> 32
 ttatattata tatcttacat aaattatata tatatattac ataaattata tacaatataa 60
 attatataca atataattta tatataaaat ataaattata taaataattt atatataaaa 120
 tataaattat ataaataatt tatatataaa atataaatta tgtataaaat ttatatataa 180
 aatataaatt gtgtataaaa ttatatataa aatataaatt gtgtataaaa ttatatataa 240
 aaatataaat tatatataat ttatatatta taatataaat tatatataat atatatcata 300
 aaatataaat tatatataat atatatcata agatataaat tatatataat atatatcata 360
 agatataaaa tatataat 378

<210> 33
 <211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(595)
 <223> MAR of chromosome 1 genomic contig; 3326732..3327326

<400> 33
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 aatatatata aatatatata aaaatatata aatatatata aatatatata aatatataa 120
 atatataata aatatatata aatatatata aatatatata aaaatatataa tatatataaa 180
 aatataaata tatataaata tatataaaaa tataaatata tataaatata tataaatata 240
 taaatatata taaatatata taaatatata aatatatata aatatatata aatatatata 300
 aatatataaa tatataaaaa tatatataaa tatataaata tatataaata tataaatata 360
 taaaaatata tataaatata taaatatata taaatatata taaatatata tataaatata 420
 tataaatata tatatatata aatatatata aatatatata taaatatata taaatatata 480
 tatatatata taaatatata taaatatata taaatatata tataaatata tataaatata 540
 tataaatata tatataaata tatataaata tatatataaa tatatataaa tatat 595

<210> 34
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

<222> (1)..(738)

<223> MAR of chromosome 1 genomic contig; 4485716..4486453

<400> 34

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tatatatcta tcatataata tatataatat ataatatatt atatatctat catataatat      120
aatatatata atatatataa tatatcatat tatattgtat ataatatata tcatattata      180
ttgtatataa tatatatcat atttatattgt atataatata tatcatatta tattgtatat      240
aatatatatc atattatatt gtatataata tatatcatat tatattgtat ataatatata      300
tcatattata ttgtatataa tatatatcat atttatattgt atataatata tatcatatta      360
tattgtatat aatatatatc atattatatt gtatataata tatatcatat tatattgtat      420
ataatatata tcatattata ttgtatataa tatatatcat atttatattgt atataatata      480
tatcatatta tattgtatat aatatatatc atatatattc tattatattg tatataatat      540
atattatata ttatctatta tattgtatat aatatatatt atatatattc tattatattg      600
tatataatat atattatata ttatctatta tattgtatat aatatataat aaatatagta      660
tatataatag ataatatata gtatatatga tatattatat atactatata ttatatatca      720
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<210> 35

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(386)

<223> MAR of chromosome 1 genomic contig; 5423067..5423452

<400> 35

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taaatatata tttatatataa tatataaata tatattttata taaatatata aatatatata      180
aaatatataa atatatatatt atataaatat ataaatatat ataaaatata taaatatata      240
tattttatat aaatatataa atatatataa aatatataaa tatatatatt ttatataaat      300
atataaatat atataaaata tataaatata tatattttat atattttatat atataaatac      360
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<210> 36

<211> 584

<212> DNA

<213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(584)
 <223> MAR of chromosome 1 genomic contig; 5805559..5806142

<400> 36
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 atatataatta taatataata tatataatac tgtatattat attatatata ttataatata 120
 tattattata tattatatta tatataatat aatatatatt ataatatatt atattatata 180
 tattataatg tattataata tatattatat tatatattat aatatatatt atattatata 240
 ttataatata tattatatta tatattataa tatatattat attatattat atatattata 300
 atacatatta taatacatat tatataatat attataatat gtattataat acatattata 360
 taatatatta taatatatta tatataataa tatattataa tacatattat atataatata 420
 tattatgtat attatatata atatataatta caatgtatat tatgtatatt atatataatta 480
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 atatgatata tataatatgt attacatgta atatatatca taat 584

<210> 37
 <211> 345
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(345)
 <223> MAR of chromosome 1 genomic contig; 10802644..10802988

<400> 37
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 atatagtata tatataact atatatagta tatatagtat atatatatattg tgtatatagt 180
 atatatatag tgtatatata gtatatatat attgtatata tagtatatat attgtgtata 240
 tatagtatat atatagtata tatagtatat atagtatata tatagtatat atatactata 300
 tatatagtat atatatatattg tatatatata ctatatatat agtat 345

<210> 38
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(474)
 <223> MAR of chromosome 1 genomic contig; 13496468..13496941

3024-119-SEQ.ST25

<400> 38
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ctataattat atattatata taatatatat tatatataat atataattat atataattta 120
tataatataa tatataatat ataattatat ataattatat aatataatat ataatatata 180
attatatata atttatataa tataatatat aatatataat tatatatatt tatataatat 240
aattatatat aatatataat tatatataat ttatataata taattatata taatatataa 300
ttatatataa tttatataat ataattatat ataattatat attatatata atttatataa 360
tataattata tataatatat aattatatat aatatataat tatatataat tatatataat 420
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<210> 39
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(483)
<223> MAR of chromosome 1 genomic contig; 2509163..2509645

<400> 39
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aattacaata tatgatatgg tttatatatt atatatagta taatataata taacataata 120
ctattataat atataaacta tataatatat actattataa tatatgaact attataatat 180
ataaactata tataatatat aatatgtact attataatat ataaactatt ataatatat 240
atataaacta ttataatata taaactatta taatatatat aatactatgt atacatatat 300
tacattatgt acatactaca ttatgtatta tgtatgtata tatacacaaa atacataata 360
tataatagta ttatataata gtatatatag ttataatata tagtataatt acaatatata 420
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cta 483

<210> 40
<211> 641
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(641)
<223> MAR of chromosome 1 genomic contig; 2776349..2776989

<400> 40
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3024-119-SEQ.ST25

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atgtttatata taacatagat attatatata catgtttatat ataacagata ttatatatac	180
atgtttatata taacatagat attatatatg tatgtttatat ataacataga tattatatat	240
gtttatataa tatataacat atgtttaaca tatataatat ataacatggt tatataatat	300
ataacataat tatatgttat atatgatata aaacatatat attatatatcg ttatatgtaa	360
tatataacat atattgtata cgttatatgt aatatataac atatattgta tacgtttatat	420
gtaatatata acatatattg tatacgttat atgtaatat taacatatat tgcatacgtt	480
atatgtaata tataacatat attgtatagc ttatatgtaa tatgtaacat atattgtata	540
cgttatatgt aatatgtaat atataatata tataacatgt atatataaca tatatgtata	600
taacatatat ataacatata taacatatat gttatattat a	641

<210> 41
 <211> 745
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(745)
 <223> MAR of chromosome 1 genomic contig; 2858703..2859447

<400> 41	
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atatattatt atattttataa tataatatat atttatatata tatattataa atatataatta	180
tataatatat attataaata tatatttatat aatatatatt ataaatatat attatattat	240
atattataaa tatatatttat ataatatata ttataaatat atatttatata atatataatta	300
taaatatata ttatatattat aatatatatt tttgtatatt atatattata tattataaat	360
attatttatat ttataatatata ttatatattt tatatatatat atatgatata tattataaat	420
atatcttata aatatatata tttatatata tatattataa atatataaat ataaatatat	480
aatatatat aatatatat aataaatata atatataata tatataatat ataataaata	540
taataaatat aaatatatca tataaatata aatataaata taaatatatc atataaatat	600
atatattttat atgatatat atagtatata taaatatatt tatatattat aaaatattta	660
tataatatat aattataata tttttatata tataaattaa ctaatatata taaactaata	720
taatataata tgtaataata tagta	745

<210> 42
 <211> 307

3024-119-SEQ.ST25

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(307)
 <223> MAR of chromosome 1 genomic contig; 945522..945828

<400> 42
 catatataat atatattacc tatgttatat aggtcatata taacataaat atattacata 60
 tatgtaatat atattaaata taaatatata acatatatgt gtaactatat atgtaaatat 120
 gtacatatat atatatgtaa atatataata tatattttaca ttatattata taatatatat 180
 ttacattata tattttatata tacattatat atattttacat tataaatatt tatataatat 240
 atattttacat tatattacat tatataaaaat acaatatatt acattataat acattataac 300
 agataaa 307

<210> 43
 <211> 357
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(357)
 <223> MAR of chromosome 1 genomic contig; 3402743..3403099

<400> 43
 aatattatat taaatataat atattaatat ttaatatatt taatataata ttaaataaat 60
 atattataaaa taaattataa tatataaata tatattatgt atttatgtat aatatataaa 120
 aattatatat aatatatata tttttataaa tatataaata tataataaat aaatatatta 180
 aataaataat aatatattaa atattaatat attaaatatt atatattaaa tataatatgt 240
 aatatgaaat atattaaata ttatatatta aatataatat ataatgtgaa atatattaaa 300
 tattatatat taaatataat atataatatg aaatatatta aatattatat attaaat 357

<210> 44
 <211> 323
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(323)
 <223> MAR of chromosome 1 genomic contig; 3485830..3486152

<400> 44
 atattttatag actatatatt tatatatatta gtgtatttgt atactatata tttatatagt 60
 tagtatattt gtatactata tttttatata tttagtatat ttgtatacta tatattttata 120

3024-119-SEQ.ST25

tatttagaat atttgtatac tatatatatta tatatttagt atatttgtat actatatatt	180
tagtatattt gtatactata ttttatata tttagtatat ttgtatacta tatatttata	240
tatttagtat atttatatac tatatactta tatatttagt atatttatat actatatact	300
tatatattta gtatatttat ata	323

<210> 45
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(498)
 <223> MAR of chromosome 1 genomic contig; 3548336..3548833

<400> 45	
aattattact atattgttaa tataattatt atataatata atataattat atcactatta	60
ttatattata gtattaatat aatagtgtat aacattaata taatatagta ttaatatat	120
agcgtataac attaataata tatagtatta atataatagc gtataacatt aatataatat	180
agtattaata taatagtgtta tattaatata atatagtatt aatatataat attaataata	240
tatatcaata taatagtata taatataata taatatatca atataatagt atataatata	300
atataatata tcaatataat agtatataat ataataat atatacaatat aatagtatat	360
aatattaata taatataata tcaatataat agtatataat attaatatat taatataata	420
gtatataata ttaatgtaat ataattata cataatgtat ataataatat aatagtatat	480
aatactaata taatataa	498

<210> 46
 <211> 400
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(400)
 <223> MAR of chromosome 1 genomic contig; 4595109..4595508

<400> 46	
aaatatatta tatttatatat tatatatatt tcaatatact ataatatata ttatatatgt	60
ttaatacaat atataatatt tacatatatt cccatttatt tatataacat atatttatgt	120
atatttatata ttactccata taatataata tattatacat aatatattac tcagtataat	180
acataatata tataatatat tactcggtat aatatataat attatatggt atgcaatata	240
atatataata ttatatataa tacattattc aatataatat ataattatt atataatata	300

3024-119-SEQ.ST25

ttattcaata taatatataa tacactattc aatataatat acaatattat atataataca	360
ttattcaata taatatatat tatataatat atatatttat	400

<210> 47
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(403)
 <223> MAR of chromosome 1 genomic contig; 7205509..7205911

<400> 47 agtatatata tgtgtatata tatgagtata tatatgtgta tatatatgag tatatatatg	60
tgtatatata tgagtatata tatgtgtata tatatgagta tatatatgtg tatatatatg	120
agtatatata tgtgtatata tatgagtata tatatgtgta tatatatgag tatatatatg	180
tgtatatata tgagtatata tatgtgtata tatgagtata tatatgtgta tatatgagta	240
tatatatatg tgtatatatg tgagtatata tatgtgtata tatatgagta tatatgtgta	300
tatatatgag tatacatatg tgtatatata tgagcatata tgtgtatata tatgagtata	360
tatatgtgta tatatatgag tatatatgtg tatatatatg agt	403

<210> 48
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(309)
 <223> MAR of chromosome 1 genomic contig; 7507280..7507588

<400> 48 tataaaatat atattattta tatattatat ataaaatata tattatatta tatattatag	60
atataataaa taaataatat ataatatatt atataattat ttatacataa ttatatataa	120
ttatatgtaa ttgtacaatt atatataatt atatacaatt atacacataa ttatatacaa	180
ttatacaatt atatacataa ttatatatat aatatacata attatatatt aattatacaa	240
ttatatacat aattatatat aattatacaa ttatatacat aattattatg tatattatat	300
tatataata	309

<210> 49
 <211> 516
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(516)
 <223> MAR of chromosome 1 genomic contig; 3581085..3581600

<400> 49
 atatatatat atatatatat atttatatat atatatatta atatatatta tatataaaaa 60
 tatataaaaat ttatatatat aatttatata tataaaaaata tataaaaattt atatatataa 120
 tttatatata taaaaatata taaaatttat atatatatt tatatatata aaaatatata 180
 aaatttatat atataattta tatatataaa aatatataaa atttatatat ataatttata 240
 tatataaaaa tatataaaaat ttatatatat aatttatata tataaaaaata tataaaaattt 300
 atatatataa tttatatata taaaatatat aaattatata tataattata tatataatat 360
 aaaatttat atataattat atatatataa taaaattata tatataatta tatatatat 420
 ataaaattat atatatattg tatatatata aaatatataa aatttatata tataaaatat 480
 aaaatatata taaaaataaa tatatatatat ttatat 516

<210> 50
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(534)
 <223> MAR of chromosome 1 genomic contig; 3084851..3085384

<400> 50
 atataatata tatgactata tttttatat tatattctat ttcaataaaa tttttatatt 60
 ttattatata ttataatata taattatata tgtaataata tataatatat aatatatatt 120
 ttatattata ttttatattt atttttatat tttatattat attttattat atatattata 180
 atatatatt atatatgcaa taatatatta tatattataa tatataatta tatatgcaat 240
 aatatattat atattataat atataattat atatgcaata atatattata gattataata 300
 tataattata tatgcaataa tatattatat attatatatt agataatata ttaatatata 360
 ttataacata taatatataa catataatat ataatatatt atctaataa taatataaca 420
 tataatatat aatatattat ataatatatt attacatata taatatattg taatatataa 480
 tattacatat atcttcaaaa agagttatgt gtatataata catatatata ccat 534

<210> 51
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>

3024-119-SEQ.ST25

<221> misc_binding
<222> (1)..(583)
<223> MAR of chromosome 1 genomic contig; 160087..160669

<400> 51
tatttatata aaatatataa aatatattat atataaatat attatatata atatatttat 60
atattataca atatatttat atattatata taatatattt tatataatat acataatata 120
ttttatatat tatatataat atattttata tataatgtac aatatatttt atatattata 180
tataatatat tttatatata ctatacaata tattttatat attatatatt ttatatatat 240
ttttcatgta acatatatat tttatatata atatatatac catatataat atattttata 300
tataatatat ataccatata taatatattt tatatataat atgtatatca tatatagtat 360
attttatata taatagggtat accatatata atatatttta tatataatag gtataacata 420
tataatatat tttatatata atatgtatac catatataat atattttata tattatagat 480
accatatgta atatacttta tatataatat agataccata tgtaatatac tttatatata 540
atatagatac catatgtaat atactttata tataatatag ata 583

<210> 52
<211> 314
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(314)
<223> MAR of chromosome 1 genomic contig; 4350424..4350737

<400> 52
tatgtgtata taaatatatg tatatatgtg tatataaata tatataaata tatgtatata 60
tgtatatata catatattta tatataaata tatgcatata tttatatata aaatatatgc 120
atatatgtat atatataaaa tatatacata tatgtatata tataaaatat atacatatat 180
gtatatatat aaaatatata catatatgta tatatatata atatatacat atatgtatat 240
atataaaata tatacatata tgtatatata taaaatatat acatatattt atatatataa 300
aataccaagt ctta 314

<210> 53
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(828)
<223> MAR of chromosome 1 genomic contig; 8443267..8444094

<400> 53

3024-119-SEQ.ST25

tattatataa ttatatatac tatataatta tataatatat agttatatag tatatataat	60
atatataata tatactatag tatatataat atatataata tatactatag tatatataat	120
atataattat atataatata tataatatag tatatattat atatatatta tatatatata	180
atatatatat aatatatata atatagtata tataatatat aattatatat aatatataat	240
atagtatata taatatataa tatatatata attatatact ataatatata taatatataa	300
ttatatatta tatactatag tatatattat tatatataat agatataata tatataatta	360
ttatataata tagtatatat aatatataat tatatataat agatataata taatataatt	420
atatataata tagtatatat aatatataat tatattatat tatatataat atataattat	480
aatatataat tatattatat aatatatata atatataatt atattatata attatattat	540
ataatatata taatatataa ttatattata taatatatat aatatataat tatattatat	600
aatatatata atatataatt atattatata atatatataa tatataatta tattatataa	660
tatatataat atataattat atattatata taatatagta tatataatat gtaattatat	720
atcatataat atataacatt gtatataata tataattaca tattatataa tgtatataat	780
atataattat atacattata taatatagta tataattata tattatgt	828

<210> 54
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(573)
 <223> MAR of chromosome 1 genomic contig; 8703190..8703762

<400> 54	
tatattatat ataaaatata catataatat acctataata tacatataat atataatata	60
tattatgtac atataatata catataatat atataatata taatgtacat ataatatata	120
tataatatat gttatatatt atatataaaa tataggatat atataatata gaatatatat	180
actatatgtt atatataaga tatataatat atagtatata tactatataa tatataatat	240
atagtatata taatatataa tatagaatat atatacaata tataatatag aatataggat	300
atatatagaa tatacatata taatatgtat atattatata ttatattata tattatataa	360
aaatatataa tatataatat aaaaatatat tatatattat ataatatataa atatattata	420
tattatatat tatataatat aaaatatatt atatattata tattatatat aaaatatatt	480
atatattata tattatatat aaaaatatat tatatattat atattatata taaaatata	540
ttatatatta tatataaaaa tatatattat tac	573

<210> 55

3024-119-SEQ.ST25

<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(597)
<223> MAR of chromosome 1 genomic contig; 8819076..8819672

<400> 55
acatatctta tatataaaat atataaatat acacatatat tatatataat atatattata 60
tatatgaaat atacacatat ttttatatat ataatatata tattatatat aatatatgca 120
tatattatat ataaaatata tatattatat ataaaatatg catatattat atataatata 180
tataatataa aatatataat atatattata tattatatat aatatatatt atatataata 240
catatatata atatataata tatataaaat ataatatata tattatataa tatatatata 300
aatatatata atatatatat aatatatata ttatatataa aatatatatt atatgtaaaa 360
tatataatat atataatata tatattatat gtaaaatata tattatatat aaaatatata 420
atatataaaa tatatattat atataaaata tataatatat aaaatatata atatataata 480
aatatataat atatataaat atatattata tataaaatat ataatatata taaatatata 540
ttatatataa aatatataat atatataaat atatattata tataaaatat atattat 597

<210> 56
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(646)
<223> MAR of chromosome 1 genomic contig; 759619..760264

<400> 56
taatatatat aatatatatt atataataat atataatata tattatatta taatatataa 60
tatattatat aataatatat attatataat atataataat atatataata catattattt 120
aataatatat aatatatatt atataataat atataatata tattatataa taatatatat 180
tatattatat aatatataat atatataata tatattatat aataatatat aatatatatt 240
atagaatgat atattagata ttatatatt atatatataa tattatatat tatataataa 300
tatataatat atattatata attatatata taatattata tattatataa ttatatataa 360
tatattatat aattatatat ataattatt atattatata attatatata atatataatta 420
tataattata tatataatac tatatattat ataattatat ataatactat atattatata 480
atttatataa ttatatatat tatatattat ataattatat atattatata ttatataata 540
acatatatat tatatattat ataataacat atatattata tattatataa tacatatata 600

ttatatatta tataatacat tattatataa tatataatat atatta 646

<210> 57
 <211> 752
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(752)
 <223> MAR of chromosome 1 genomic contig; 1226710..1227461

<400> 57
 taaacatata tataaatata tataaatata tatataaata tatataaata tataaatata 60
 taaatatata tgaatatata aatatatata aatatatatg aatatataaa tatatatata 120
 aatatatata aatatatata taaatatata taaatatata taaatatata taaatatata 180
 taaataaata tataaatata tataaatata taaatatata tataaatatg taaataaata 240
 tatataaata tataaatata tataaatata tataaatata tatagaaata tatatagaaa 300
 tatatataaa tatatataga aatatataga aatatatata gaaatatata taaatatata 360
 taaatataga aatatatata aatatatata aatatatata gaaatatata atatatataa 420
 atatatataa atatataaat atatatataa atatatatat aaatatatat aaatatatat 480
 aaatatatat aaatatatat aaatatatat attaatatat aaatctatat taatatatat 540
 taatatataa atctatatta atatatatta atatatatat taatatatat taatatataa 600
 atatatatat taatatataa atatatataa atatatatgt aaatatatat ataaatatat 660
 ataaatatat atataaatac atataaatat atatataaat atatataaat atatatataa 720
 atatatataa atatatatat aaatatatat aa 752

<210> 58
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(300)
 <223> MAR of chromosome 1 genomic contig; 1119049..1119348

<400> 58
 taatatatcat tttatataat atatgtaata tatattttat atatatgtaa tatatatttt 60
 atataatata tgtaatatat attttatata tatgtaatat atattttata taatatatgt 120
 aatatatatt ttatataata tatgtaatat atattttata taatatatgt aatatatatt 180
 ttatataata tatgtaatat atattttata taatatatgt aatatatatt ttatataata 240

3024-119-SEQ.ST25

tatgtaatat atatittata taatatatgt aatatatatt ttatatatat gtaatacata 300

<210> 59
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(617)
 <223> MAR of chromosome 1 genomic contig; 3603613..3604229

<400> 59
 aaaatataat atatataata tataatatat ataatatatt atatataaaa tatataatat 60
 ataatatata taataaaata tacataatat ataatgtata ataaaatata cataatatat 120
 aatatataat aaatatataa tatataatat ataataaaat atataatata taatatataa 180
 taaaatatat aatatattat atataataaa atatataata tattatatat aataaaatat 240
 ataatatatt atatataata aaatatataa tatattatat ataataaaat atataatata 300
 ttatatataa taaaatatat aatatattat atataataaa atatataata tataatatat 360
 aataatatat ataatatata atatataata taaaatatat ataatatata atatataata 420
 taaaatatat aatatataat atatataata aaatatatat gatataatat atatataata 480
 aaatatatga tatataatat atataataaa atatataata tataatatata tatataatat 540
 atatactaaa aaatatataa tatataataa aaaatatata atatataata tatataatat 600
 ataataaaat atatata 617

<210> 60
 <211> 674
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(674)
 <223> MAR of chromosome 1 genomic contig; 2592460..2593133

<400> 60
 taagcttata tatatatata agcttatata tatatatata agcttatata tatatagaaa 60
 gcttatatat atatagaaag cttatatata taagaagctt atatataaaa gcttatgtat 120
 aaatatatat aaatatattt atttatgctt atagatacat atataaatat atttatttat 180
 atttatatat aaacatatat ttatatatat ttatataata tttattttatt atataaataa 240
 atatataata aataataaat atatataata tttttattgt attattttata taaattttatt 300
 aatataatat ataataaaat aataattata taaatatata aatatctata aatatatata 360
 aatatatata atatctataa atatataata atataaatat atataaatatc tataaatata 420

3024-119-SEQ.ST25

gataaatata aatatatata atatctataa atatagataa atataaatat atataactat	480
atataaatat atataactat atataaatat atatataaat atatataact atatatataa	540
ctatatatat aatatatat aactatatat ataaatatat atataaatat atataactat	600
atatataaat atatataact atatataaat atatatataa atatatataa ctatatatat	660
aaatatatat ataa	674

<210> 61
 <211> 1694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1694)
 <223> MAR of chromosome 1 genomic contig; 2891680..2893373

<400> 61 atatgtaata catatattat atatgcatat atacatgcat atgtatatac atatattata	60
tatgcatata tacatgcata tgtatataca tatataaagt atgattatat ataatatata	120
catgtatatg tatatacatg tatatattat attatatatt atttatacat attattatgt	180
ctatatataa tataatatat acatattaat aatataatac ataatatataa ataatatatt	240
atataatata taatatataa taatatatta tataatacat aatataatat aatatattat	300
atgatacata atataatata atatattata tgatacataa tataatataa tacatattaa	360
taatatatta ttattattaa tataatatat acatattaat atacatacat atatattata	420
ttatatataa tatacatata atataaatatg taatattata tataatataa tacataatat	480
aatacatatt aatatatat tattaataag ataatatata tgtatctata atatatacat	540
atatgtatat gtatgtatat attatagata tacatgttta tacatgtata tattatagat	600
atatacatgt atatacatgt atatattata gatatacata tgtatatacg tatatattat	660
agatatacat gtatatatgt atatatatta tagatataat atatacaaga atataagaat	720
atatataata taatatataa tacacataat acgtatatat tatatataca tgtatattat	780
atatgtacat atatacatgt atattatata tacatgtata ttatatatac atgcatatta	840
tatatatttt tatatataat atccatgtat attatgtata tttgtgtata ttatatatac	900
atgtatatta tatatacatg catattatat atatttttat atataaatatc catatatatt	960
atgtatattt gtgtatatta tatatacaca tatattatat atacatggat attatatata	1020
cacatatatt atatatacat atatattata tatacacata tattatatat acatgtatat	1080
tatatataca cgtatattat atatacacac gtatattata tatacacgta tattatatat	1140
acacacgtat attatatata cacgtatatt atatatacac acgtatatta tatatacacg	1200

3024-119-SEQ.ST25

tatattatat	atacacacgt	atattatata	tacacgtata	ttatatatac	acacgtatat	1260
tatatataca	cgtatattat	atatacacac	gtatattata	tatacacgta	tatttatatat	1320
acacacgtat	attatatata	cacgtatatt	atatatacac	acgtatatta	tatatacatg	1380
tatattatat	atacatgtat	attatatata	cacatgtata	ttatatatac	atgtatatta	1440
tatatacaca	tgtatattat	atatgcatgt	atattatata	tacacatgta	tatttatatat	1500
acacatgtat	attatatata	catatatatt	atatatacat	gtatattatg	tatacatata	1560
tatttatatat	acatgtatat	tatagataca	tatatattaa	atatacatgt	atattatgta	1620
tacatatata	ttaaatatac	atgtatatgg	tatatacata	tatattatat	acatgtatat	1680
tacatgtata	cata					1694

<210> 62
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(587)
 <223> MAR of chromosome 1 genomic contig; 3432560..3433146

<400> 62	
gaattatata	tatatagctg aattatatac atatataata tatacaatat atattatata 60
tttatatatg	atatatacaa tatatattac atattatata tacaatatat aatatataat 120
atataatatt	atatattata tattgtatat aatatatatt atataacatt atataatata 180
taatattata	tatttatatat tgtatataat atatattata taacattata taatatatac 240
tatttatatat	tataatatat aatatataat aatatataat agtatatat attatatattg 300
tatatattat	atataaatat ataatatata atatataatta tataatatat attatataat 360
atatattatt	atatattata tttttatata taatatatat tatatatatt atattttata 420
tataaatata	taatataata taatatataa tttaatatat ataatatata caatatataa 480
tatataatat	attaatatat ataatatata caatatataa tatataatat ataatatata 540
atataaatta	ttatatataa tatatattat atatagctga attatat 587

<210> 63
 <211> 313
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(313)
 <223> MAR of chromosome 1 genomic contig; 3805392..3805704

3024-119-SEQ.ST25

<400> 63
tatataatat gtatattatg taatatttta tatagcatat atgtatatta tatataatct 60
tttatatata gtatataata tgtatattat atattatata attatataat tatgtattat 120
ataaaatata ttatataata tataattata ttttttttga aatatagatt atatataata 180
tatatggcag tgagctgaga tataatatat attatctata ctatataata tatatttatat 240
atactctata ttatatatgt atatattata tataatatat acatatataa tgtgtatata 300
ttatatataa taa 313

<210> 64
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(349)
<223> MAR of chromosome 1 genomic contig; 4521378..4521726

<400> 64
ttatatacac tatataatat gtattttatat atactttatat acactatata tgtattttata 60
tataattata tacactatat aatatgtatt tatatataat tatatacact atataatatg 120
tattttatata taattatata cactatataa tatgtatttta tatataattg tatacactat 180
ataatgtata tttatatata attgtatata ctatataatg tatattttatg tataattgta 240
tacactatat aatgtatatt tatgtataat tgtatacact atataatgta tattttatgta 300
taattgtata taccatataa tgtatatttta tgtataattg tatataacca 349

<210> 65
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(500)
<223> MAR of chromosome 1 genomic contig; 3240166..3240665

<400> 65
ttaatatata atatataatta tatattttata tattaatata taatatatat ttatatataa 60
tatatattat atattttatat tacatatatt tatatgttaa tatatatttt atatattttat 120
atattttata tattttatata ttatatattt atatattata tttatatatt atatattttat 180
attatatatt tatatattat atttatatat tatatatttta tattatatat ttatatattg 240
tatattttata ttatatattt atatattgta tttatatatt atatattttat atactatata 300
tattttatata tatttatatat ttatatatta tatatatttta tatatatttat atattttatat 360

3024-119-SEQ.ST25

attatatata tttatatata ttatatat	420
atatattata tatatttata tatattatat	
atattttatat atattatata tttatatata	480
atatatatta tatattttat ctatatat	
ttt	
atatattaat atatattata	500

<210> 66
 <211> 866
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(866)
 <223> MAR of chromosome 1 genomic contig; 409429..410294

<400> 66	
atatatataa tatatttat atattatata	60
ttatatatat aatacatata ttatatatat	
aatatataat acatatatta tatatattat	120
atattatata taatatataa tacatatatt	
atatataata tataatatat aatatattat	180
ataatataat tatataatta tataatataa	
tataatatat aatatttat aattatataa	240
tatatataat tatatttat attataaata	
ttatataata tatatattac aaatatatat	300
tatatatatt ataaatatta tataacatat	
atattatata atatatataa tatataatat	360
atataaaaat ataatatata agatatatat	
aatatatgat atatatgata tataatatat	420
gatatatatg atatatataa tatatgatat	
atatgatata tatgatatat ataatatatg	480
atatatatga tatatatgat atatatgata	
tatgatatat gatatatatg atatatatga	540
tatatgatat atatatgata tgatatatat	
gatatatatg atatatatga tatatgatat	600
gatatatata atatatgata tgatatatat	
aatatatgat atatatgata tatgatatgt	660
aatatatatg atatattata tataatatat	
aatatataca taatatataa tatataatat	720
ataatatata taatatgtga tatatataat	
atatgatata tgatatatga tatatattat	780
ataatatata taatatatat tatatataat	
atatattata taatatatat aatatatatt	840
atatataata tataagatat aagatataat	
atatataata tataatatat ataata	866

<210> 67
 <211> 335
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(335)
 <223> MAR of chromosome 1 genomic contig; 614754..615088

<400> 67

3024-119-SEQ.ST25

acccaatata tgtgtatata tgtatgtata tatacatata catacataca tatatgtaca	60
tacatatata catacataca tatatatgta catacatata tacatacata catatatata	120
tataacatat atacacacat atatacagat atacatatat acatacatat atacatataa	180
catatatata tacatatata catataaacac atacatacat acatatatac atacaacata	240
tatacatata tatatacata tgtatacata catatatgta tacatatatg tatacatata	300
tgtatacata tatgtatata tatattgtta tatat	335

<210> 68
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(455)
 <223> MAR of chromosome 1 genomic contig; 1299520..1299974

<400> 68 ggatatatat attattagtt gttatattat tatatattat atatattatt atatataata	60
tattatatca tatatattat tatatataat atattatattc atatataatta ttatataata	120
tattatatca tatatattat tatatataat atatattata tatattatta tatataatat	180
atattatata tattattatg tataatatat atattatata ttattttatat atatataaat	240
tatataataa tatataatta attatacata tatacatata taagtataca tataatatat	300
ttatatagta tatataaata tatatacaat atattttatat attatatatt atatataaat	360
atatacaata tattttatattc atatatttta tatatgatac atataatata tatttatatat	420
gatataataat atatatcata tatgatatat aacat	455

<210> 69
 <211> 404
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(404)
 <223> MAR of chromosome 1 genomic contig; 1970778..1971181

<400> 69 atatataata tgtataatat ataatatata tcatatattg ttctatgtat attacatata	60
atatgcatta tatatttatat attgcatata atatgcatta tatatttatat attgcatata	120
atatgcatta tatatttatat attgcatata atatgcatta tatatttatat attgcatata	180
atatgcatta tatatttatat attgcatata atatgcatta tatatttatat attgcatata	240
atatgcatta tatatttatat aatatataca catataatat atataattta tatatattta	300

3024-119-SEQ.ST25

tatatattta catttattat atatttatta tatataaata tttttttata tattacttat	360
atatttatata taatatatat aatatatata ttatatataa tata	404

<210> 70
 <211> 605
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(605)
 <223> MAR of chromosome 1 genomic contig; 3562918..3563522

<400> 70 tatatatata aaatacatat atatttatata tatttatatat aatacatata ttatatatta	60
tatataatac acgtatataa tatataatat ataatacata taatatatat gatataaat	120
acataataa tatatgatat ataatacata tataatatat atgatatata atacatatat	180
aatatatatt atatataata catatataat atatattata tataatacat atataatata	240
tatttatatat aatacatata taatatatat tatatataat acatatataa tatatattat	300
ataatacata tataatatat attatataat acatgtatat aatatatatt atatataata	360
catatatatt atataataca tgtatataat atatattata tataatacat atatattata	420
tatttatatat taatatattt atataatagt aatatataat attaatatat tatatatatt	480
aattattatat ataatacata tatttatatat aatataaata tatataatac atatataata	540
cacatattat atataataca tatattatat ataatatata tatttatatat aatatatatg	600
taata	605

<210> 71
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(317)
 <223> MAR of chromosome 1 genomic contig; 189743..190059

<400> 71 ttttttttat atttatatat tatatatatt tttatatgta atatattata tataaaatta	60
tataatttta ctacatataa tatataaaat tatataattt tactacatat aatatataaa	120
atttatataat ttacttatat ataatatata aaattatata attttatata taatatatat	180
tataatatat atttatatgca atatatatta tatattatat tataatatat tgtatatttt	240
tgtatataaaa atatataata tataatatat ttatagacaa taatatataa tataatatat	300

aaaattttat atataaa

<210> 72
 <211> 522
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(522)
 <223> MAR of chromosome 1 genomic contig; 229111..229632

<400> 72
 gatatatata tttatatata taaaagatat atattattta tatataaaga tatatattta 60
 tatatataaa agatatatat ttttatata tataaaagat atatatttat atatatgata 120
 tatattattt atatatataa aagatatata tttatatata tgatatatat ttttatata 180
 taaaagatat atataaaaga tatatattat ttatatatat aaaagatata tatataaaag 240
 atatatatta tttatatata taaatgatat atattattta tatataaaag atatatatta 300
 tttatatata aaagatatat attatttata tatataaaag atatacatat aaaagatata 360
 ttttatata taaaagatat atatatttat atataaaaga tacatatatt tatatatata 420
 aaagatatat atatttttat atataaaata tatatttatat atataaaaga tatatataaa 480
 tatatatatc ttttatatat aaaagatata tataaatata ta 522

<210> 73
 <211> 1110
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1110)
 <223> MAR of chromosome 1 genomic contig; 1138030..1139139

<400> 73
 tatgtatgta tacataatat attatatatg tatattatgt atacataata tattatatat 60
 gtatattatg tatacataat atattatata tgtatattat gtatacataa tatatttatat 120
 attatatgta tattatgtat acataatata ttatatatta tatgtatatt atgtatacat 180
 aatatattat atattatag tatattatgt atacataata tattatatat tatatgtata 240
 ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatatttatat 300
 attatatgta tattatgtat acataatata ttatatatta tatgtatatt atgtatacat 360
 aatatattat atattatag tatattatgt atacataata tattatatat tatatgtata 420
 ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatatttatat 480
 attatatgta tattatgtat acataatatt tatatattat atgtatatta tgtatacata 540

3024-119-SEQ.ST25

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atatattata tatttatgt atattatgta tacataatat gtacacataa ttttatata 600
ttatatgtat attatgtata cataatattt atatattata tgtatattat gtatacataa 660
tatttatata ttatatgtat attatgtata cataatattt atatattata tgtatattat 720
gtatacataa ttttatata ttatatgtat attatgtata cataatatat tatatattat 780
atgtatatta tgtatacata atatattata tatttatgt atattatgta tacataatat 840
attatatatt atagtatat tatgtatata taatatttat atattatatg tatattatgt 900
atacataata tatttatatat tatatgtata ttatgtatac ataatatatt atatattata 960
tgtatattat gtatacataa tatattatat attatatatg tatattatgt atacataata 1020
tatttatatat tatatatgta tattatgtat tatattatat attatgtata ttatagatta 1080
tgtatgcata cataatatgt attgtatatt 1110

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<210> 74
<211> 521
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(521)
<223> MAR of chromosome 1 genomic contig; 2863407..2863927

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<400> 74
aatatatata aatatataaa tatatatataa tatatatata taaaatata taaatatata 60
tatgtaaata tatgtaaata tatgtaaata tatgtatatg tatatatatg taaatgtatg 120
taaatatata taaatatatg taaatatata taaatatatg taaatatata aatatatata 180
actatatata aatatatata aatatataa taaaatata taaaatata taaaatata 240
taaaataata catataaata taaaataaa tacatatataa tatatatataa tatataaaaa 300
tatatatataa tatatatata aatatataaa catatatataa tatataaata tatataaata 360
tataaatata taaaatatat aaatatatat aaatatataa atatatataa atatatataa 420
atatagataa atatatataa atatatataa atataaatat agataaatat ataaatatat 480
aaatatataa atataaaaat atatatataa atataaaaat a 521

```

```

<210> 75
<211> 560
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(560)
<223> MAR of chromosome 1 genomic contig; 5712303..5712869

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3024-119-SEQ.ST25

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<400> 75
atataattat atatatatta tatattatat ataattatat attatatata atgtataatt      60
atatattata tataatatat ataaatatat atatTTTTTTa tataaatata ttatatattt    120
atatattata tataaatttt tatatatataa tttttatata ttatatatat ttatatatta    180
tatattgtat atattttatat attacatatt gtatatattt atatattata tattatatat    240
ttatatatta tatatttatat atttatatat tatatatatt atatatattat atattatata    300
taaattattt atatataata tataaatata tattatataa tataaatttg tatatataat    360
atatattttat attatatata aaatatattat attatatata aaatataata taaatatata    420
catataatat atatattata tttttataat tatatatatt atataataca tataatatat    480
aatatataat acatatatat catatatgaa atatatatca tatattatac atattatata    540
taacatatat attatatatc                                         560

```

```

<210> 76
<211> 479
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(479)
<223> MAR of chromosome 1 genomic contig; 8578812..8579290

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<400> 76
tatggtatag atatatgata tatgggggtac atatatggta tatatatggg ttatatatat      60
gatatatatt atatatgtat atggtatata tatggtatat atattatata tgcatatggt    120
atgtatatgg tatatatatg atatatacat atggtgtata tatatgttat atatgatata    180
tataaggtat atatatggta tatataaggt atatatagta tatatatggt atatataagg    240
tatatatgtt atatatatgg tatatataag gtatatatat tgtatatatg gtatatatat    300
ggttttatata tatggtgtgt atatatggtg tttatataca cactttatat actatatatt    360
atatacacac tatatataat atatattata tatagttaaa tatatggtat atgcaattag    420
atatatggta tatgtaatta tatatatggt atatagatgg tgtatatatg gtatatata    479

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<210> 77
<211> 477
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(477)
<223> MAR of chromosome 1 genomic contig; 8579294..8579770

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3024-119-SEQ.ST25

<400> 77

tatagtatat	atacacacta	taggtaatat	actacatatt	atatacacac	tataaataaa	60
atatataata	tataatattt	tctatatagt	atatattata	tattgtatat	actatatata	120
atatatacta	tagacagtag	atactttata	tactatagac	agtatatact	atatactgta	180
tacactatag	acagtatata	ctatatactg	tatacagtat	atgtagtgta	tatgtagtgt	240
atataatata	tagtatatat	tatctatact	atatacagta	tatatagtgt	atacataata	300
tatattatat	attatatata	ctatatacag	tatacatagt	gtatatgtag	tgtataatat	360
atataatgtg	tatataaaat	atatatacta	tatataatat	atattatata	taatatatac	420
actatatata	ctatagatac	actatatatt	cactatatat	actatatata	ctatata	477

<210> 78

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(331)

<223> MAR of chromosome 1 genomic contig; 8580024..8580354

<400> 78

actatatgtt	atatacataa	gatatagtat	ataccatata	ttatatacat	tatatatagt	60
gtatactata	tataatgtat	ataatatata	gtatatatac	actatatata	ctatgtatat	120
atacactata	tatactatgt	atatatacac	tatatatact	atgtatatat	acactatata	180
tactatgtat	atatacacta	tatatactat	gtatatatac	actatatata	ctatgtatat	240
atacactata	tatactatgt	atatatacac	tatatatact	atgtatatat	agtgtatata	300
tactgtatat	gttatagtgt	atatatagta	t			331

<210> 79

<211> 410

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(410)

<223> MAR of chromosome 1 genomic contig; 8580705..8581114

<400> 79

tatagtctat	attatataca	gtctatataa	tatatagtat	atactatata	tacttttcct	60
cattctgact	atatactata	tatatactat	atatagtata	tgtagtgat	atatacacca	120
tatatactat	atatagtata	cataccatat	atagtatact	atacatacca	tatatagtat	180
acataccgta	tatagtatac	tatacttacc	atatatagta	tacatactat	atataatata	240

3024-119-SEQ.ST25

tctgggtgtat atatacacta tatatactat atatactata tatagtatat gtacactatt	300
tatagtatttt atagtatata tactgtatat atagtatgta gtatatatac tatatattat	360
gtagactata tataatatag actatgtgta gagtatatat actatatata	410

<210> 80
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(433)
 <223> MAR of chromosome 1 genomic contig; 12979167..12979599

<400> 80	
atatataata tatatatgtc ctatatataa aatatatcat atatataaat atatatgata	60
tatttttatat attaaatata taattatata taaatatata tttatatata aatatattat	120
ttcaatatat ataaatatat ttaaatatat ttaaatagaa tattaaatat ataaatatat	180
aattatatttt aatatataaa tatatatataa atatataatt atatttaata tatataaata	240
tatattaaat atataattat atattttatat atttattata tataaatata tatttgttct	300
aaataaatat atattctaaa tatataatat tttatattat ataatatata atataaaata	360
tataataaat atataatata taaataaata aatattttatt ataaaataca tataaatatt	420
aaatatatat taa	433

<210> 81
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(385)
 <223> MAR of chromosome 1 genomic contig; 16336644..16337028

<400> 81	
tttatataaa tatctatata aataaatata taaatatata aatataaata tatataaata	60
tataaataaa tatataaata tatataaata taaatatata tataactatg aattttatatt	120
tatataaata tatatctata tgaatatataa tatatatatta tataaatata aatatatata	180
taaatatata tattttatata gatataaata tatatatataa tatatatatt tatatagata	240
taaatatata tctatatatg aatatatatc tataggaata taaatatata tctatatataa	300
tataaatata tataagtata aatatatata aatatatatc tatataaata taaatatata	360
tataaatata aatatatata taaat	385

<210> 82
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(363)
 <223> MAR of chromosome 1 genomic contig; 20624448..20624810

<400> 82
 tatatatata gttatatata tatttatata tatagttata tatatatattt tatatagtta 60
 tatatatagt tatatatata gttatatata tatagttata tatatagtta tatatatagt 120
 tatatatata tagttatata tatagttata tatatagtta tatatatagt tatatatata 180
 tagttatata tatagttata tatatatagt tatatatata gttatatata tatagttata 240
 tatatagtta tatatatagt tatatatata gttatatata tagttatata tatatagtta 300
 tatatatata gttatatata tatagttata tatatagtta tatatatata gttatatata 360
 tag 363

<210> 83
 <211> 310
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(310)
 <223> MAR of chromosome 1 genomic contig; 566025..566334

<400> 83
 tatatataat atatattgta tatattatat attgtatata taatatatat tgtatatatt 60
 atatattgta tatataatat atattgtata tattatatat tgtatatata atatatatat 120
 tgtatatatt atatattgta tatataatat atatattgta tatattatat attgtatata 180
 taatatatat attgtatata ttatatattg tatatataat atatatatatt tatatattat 240
 atattgtata tataatatat atattgtata tattatatat agtatatatatt atatatagta 300
 tatataatat 310

<210> 84
 <211> 1236
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1236)
 <223> MAR of chromosome 1 genomic contig; 1171429..1172664

3024-119-SEQ.ST25

<400> 84

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aaagtattat atgtattata tgtatatgta ttatatatta catatgtatt atatataata    60
tatattatat attattatat attatatatt atatattatt atttatataa tgtattatat    120
attatatagt atatatagta tatataatgt attatatatt atatagtata tatagtatat    180
ataatgtatt atatatagta tatataatgt attatatagt atatatacta tataatgtat    240
tacatattat gtatagtata tgtaatgtat tatatattat atagtatatg taatgtatta    300
tatgtattat atagtatata ttatatatga tgtattattt agtatatata atatatatga    360
tgtattatat aacatatata atatatatga tgtattatat agcatgtata gtatatatga    420
tgtattatat agcatgtata gtatatatga tgtattatat atagcatgta tagtatatat    480
gatgtattat atatagcatg tatagtatat atgatgtatt atatatagca tgtatagtat    540
atatgatgta ttatatatag catgtatagt atatatgatg tattatatat agcatgtata    600
gtatatatga tgtattatat atagcatgta tagtatatat gatgtattat atatagcatg    660
tatagtatat atgatgtatt atatatagca tgtatagtat atatgatgta ttatatatag    720
catgtatagt atatatgatg tattatatat agcatgtata gtatatatga tgtattatat    780
attatatatg gtatatatga tgtattatat attatatatg gtatatatga tgtattatat    840
attatatatg gtatatatga tgtattatat attatatata atatatatga tgtattatat    900
attatatata atatatatga tgtattatat atgatgtatt atatataata tatatgatgt    960
attatatata ttattatcta ttatatacga tgtattatat gcaagttatt atgtataata   1020
tataatgtat tatatattat ataatgtata atatataaat atataaatat ataattatgt   1080
ataaatatag aaatatatac attatacatt atatacatta taatgtataa tatataaata   1140
tattatatat aaatgtatac attatatata aatatattat atacattata tataaaatat   1200
gtatatagtt attatacctt atatatacta aacagt                               1236

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<210> 85

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(309)

<223> MAR of chromosome 1 genomic contig; 1925173..1925481

<400> 85

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atatatttat ataaatatat tttatataaa tatatattat ataattattat aatatatggt    60
atattatata tattttatac aatatataat atatattata tatattttat acaatatata    120
atatatatta tatatatttt atataatata taatatatat tatatatatt ttatacaata    180
tataatatat attatatatt atataatata tattatatat attttatata atatataata    240

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3024-119-SEQ.ST25

tatatatttat acaatatata atgtatatca ttatattata taatgtatat catattatat 300
aatgtatat 309

<210> 86
<211> 312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(312)
<223> MAR of chromosome 1 genomic contig; 4396756..4397067

<400> 86
cacagtgtat ataatgtata tataactgtat atataactgtg tatatacact gtatatacac 60
agtgtatata cagtatatat actatatata cactgtgtat ataatgtata tataaattct 120
aggaatatat atactatata tataactatat atataaattc taggaatatata tacacactat 180
atatacacta tatatacaca tatatacact atatatatta tacacatatata ttatatatat 240
acactatatata tacacgagat atataacata tacactatat actatacata acatatatac 300
tatatatact at 312

<210> 87
<211> 398
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(398)
<223> MAR of chromosome 1 genomic contig; 56057..56454

<400> 87
atatatatta catatttatat atataatatata tattatataa tatatattat attatataat 60
atataatatata aatatatatat aaatttatatt atataatatata taatatataat ataatatataa 120
ttatatataat ataatatata ttttattata taatatataata tatattatat aaatatataata 180
tataaattat ataatatatat atatatattata taatatataata ttttttatta tataaatatata 240
tattatatta tataatatatat attttattat ataatatata ttatatattt atagaatatata 300
atatatattt tattatataa tatatattat ataatatata ttatatattat atataacata 360
tattattata taaaatatgt ataatatata ttatatata 398

<210> 88
<211> 391
<212> DNA
<213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(391)
 <223> MAR of chromosome 1 genomic contig; 56984..57374

<400> 88
 tactataata catattatat ataattattat atactatata ttactatatt attatattat 60
 atataattaa actatattat agtatataat atataatata tactatatgt aatattacta 120
 tgatactgat attatattat atataattaa attatattat attaatatat aaattatata 180
 taatacataa tatataaatt atatttatatt atttatatat aatgtatgcc atataattta 240
 tatataatgc attatatata atttatatat aatgcattaa atataaatta tatataatgc 300
 attatatata attatatata atgcattata tataatttat atttaatatata taaatttata 360
 ttttaatatat ttatatatta tatataataa a 391

<210> 89
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(309)
 <223> MAR of chromosome 1 genomic contig; 469547..469855

<400> 89
 atatatatgt aatatatatg ttatatatgt aatatatatg ttatgttata tatgtttatat 60
 atatgttata tataatatat atgtttatata tacgtttatat gttatatata tgttatatat 120
 aatatatggt atatatatgt tatatgtttat atatgtttata tataatatat gttatatata 180
 atatatgtta tatatgtttat atataatata tgttatatat attatatata atatatgtta 240
 tatatatatt atataatata taatatatgt gatatatat ataaaatata tgtgatatat 300
 attatatat 309

<210> 90
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(441)
 <223> MAR of chromosome 1 genomic contig; 546190..546630

<400> 90
 atacacaaca tatgtgtata tatatagttat atatacaca catatgtgta tatatatagt 60
 atatatacac aatatatgtg tatatatata gtatatatac acaatatatg tgtatatata 120

3024-119-SEQ.ST25

gtataaatat atactatata tagtatatat agtataaata tatactatat atagtatata 180
catagtataa atatatacta tatatagtat atacatagta taaatatata ctatatatag 240
tatatacata gtataaatat atactatata tagtatatac atagtataaa tatatactat 300
atatagtata tacatagtat aaatatatac tatatatagt atatacatag tataaatata 360
tactatatat agtatatata tagtataaat atatactata tatagtatat acatagtata 420
aatatatact atatatagta t 441

<210> 91
<211> 1367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1367)
<223> MAR of chromosome 1 genomic contig; 124643..126009

<400> 91
atatttatat gatataaat atatataata ttatatataa tattatatat gatataaac 60
attatataat attatatatg atatataatta tatatattat atatgatata taatatatat 120
aatattatat atgatattat atatcatata taatatataa aatattatat atgatatata 180
atatatataa tattatatat attatatata ttatatatca tatataatat tctaaatata 240
taatattata tgatatataa gattatatac attatatata atatataata ttatatatga 300
tatataatat tatatacatt atatataata tataatgtat ataattattat atattatata 360
tttatattat atacaatgta tataatatta tatatcatat atatttatat tatatacaat 420
gtatataata ttatatatca tatataatat tatatacaat gtatataata tatatttatat 480
atatttatat tatatacaat gtatataata tatatttatat atatttatat tatatacaat 540
gtatataata tatatttatat atatttatat tatatacaat gtatacaata ttatatatta 600
tatatttatat atttatatta tatacaatgt atatattata tattatatat ttatattata 660
tacaatgtat atattatata ttatatattt atattatata caatgtatat attatatatt 720
atatatttat attatatata atgtatatat tatatattat atatttatat tatatacaat 780
gtatatatta tatatttatat atttatatta tatataatgt atgtaattat atatattata 840
tatttatatt atatataatg tatgtaatat tatatattat atatttatat tatatataat 900
gtatgtaata ttatatatta tatatttata ttatatataa tgtatgtaat attatatatt 960
atatatttat attatatata atgtatgtaa tattatatat tatatattta tattatatat 1020
aatgtatgta atattatata ttatatattt atattatata taatgtatgt aatattatat 1080
attatatatt tatatttatat ataatgtatg taatattata tattatatat ttatattata 1140

3024-119-SEQ.ST25

tataatgtat gtaatattat atattatata tttatattat atataatgta tgtaatatta	1200
tatattatat atttatatta tatataatgt atataatatt atatattata tttttatatt	1260
gtatataata ttatatatta tatattttata ttgtatataa tatatattat atattttatat	1320
tgtatataat attatatatt atatattttat attatatata atgtata	1367

<210> 92
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(458)
 <223> MAR of chromosome 1 genomic contig; 58908..59365

<400> 92	
tatatgatat atatgatata tatgggatat atatgatata tatgatatat atgggtatata	60
tatgatatat agtatatatg atatatatgg tatatatatg atatatagta tatatgatat	120
atatgggtata tatgatatat agtatatatg atatatatgg tatatatgggt atatatatga	180
tatatgatat atatgatata tatgatatat gatatatatg atatatatga tatatatgggt	240
atatatgata tatatgggtat atatgggtata tatatgatat atatgatata tatgggtatat	300
atatgatata tatgatatat atgggtatata tatgatatat atgatatata tgggtatatat	360
atgatatata tgatatatat ggtatatata tgatatatat gatatatatc atatatatgg	420
tatatatatg atatatatga tatatatcat atatatgg	458

<210> 93
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(330)
 <223> MAR of chromosome 1 genomic contig; 306867..307196

<400> 93	
ataatatata aatatatatg atatatatct atatatatca tatataaata tatatgatat	60
atatctatat atatcatata taaatatata tgatatataa atatatatga tatatatcta	120
tatatatcat atataaatat atatgatata taaatatata tgatatatat ctatatatat	180
catatataaa tatatatgat atatatctat atatcatata taaatatata tgatatatat	240
ctatatatat catatataaa tatatatgat atctatctat atatatcata tataaatata	300
tatgatatct atctatatat atcatatata	330

3024-119-SEQ.ST25

<210> 94
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(353)
<223> MAR of chromosome 1 genomic contig; 636899..637251

<400> 94
tatgtatata tatacacata tacgtatata tatacatata tacacatata cgtatatata 60
tacgtatata tacatatgta tatgtatagc tatacacaca tatgtatatg tatacgtata 120
cacacatata cgtatatatg tatacgtata cacacatata cgtatatgta tacatatata 180
tgtgtacata tacgtatata cgtatatgta tacatatata cgtttatgta tatatacgta 240
tatacgtata tatgtatatg tatacatata tacatatatg tgtatatagc tatatacgta 300
tatgtgtata tatacaatat acatacatgc acatatatgt gtatatgcac ata 353

<210> 95
<211> 345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(345)
<223> MAR of chromosome 1 genomic contig; 1435510..1435854

<400> 95
atcatatata ttatatatca tatatatgat atataaaaat tatatatcat atatatgata 60
tataaaaatt atatatatca tatataatat atataatata ttatatatat aaattatata 120
taatatatat aaattatata tatcatatat atgatatata atttatatat catatatatg 180
atatatataa tatattatit atatataata tattatatat tatataatat gtaatatata 240
ttatatatta catattatat tatttataaa taatatttta taatatatat aatattatat 300
aatatagaat attatatatt atatattaca tattatataa tatat 345

<210> 96
<211> 521
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(521)
<223> MAR of chromosome 1 genomic contig; 39695..40215

<400> 96
tatatatata atagatatta tatatctatt atatatctat tatatatata atagatatta 60

3024-119-SEQ.ST25

tatatctatt atatatataa tagatattat atatctatta tatatataat agatattata	120
tatctattat atataatata tatctattat atattatata tctattatat ataatatata	180
tctattatat atattatata tctattatat atataataga tattatatat ctattatata	240
taatatatat ctattatata ttatatatct attatatata tgtatctatt atatatatta	300
tgtatctatt atatatataa tatatctatt atatatatat tatatataat atatattata	360
tatattatat atctattata tataatatat atctattata tatattatat atctattata	420
tatattatat atctattata tataatatat atctattata tatattatat atctattata	480
tataatatat attatatata tattatatat tgtatatcta t	521

<210> 97
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(484)
 <223> MAR of chromosome 1 genomic contig; 1286007..1286490

<400> 97 atatcatata tattatatat catatatatg atatataaaa attatatatc atatatatga	60
tatatataaa ttatatatat catatataat atatataata tattatatat ataaattata	120
tataatatta tatataaatt atatatcaca tatatgacat ataaattata tatcacatat	180
atgatatata atttatatat cacatatatg atatataaatt tatatatcat atatatgata	240
tataatttat atatcatata tatgatatat aatttatata tcatatatat gatatatata	300
atatattatt tatatataat atattatata ttatataata tgtaatatat attatatatt	360
atataaatg taatatatat tatatattac atattatatt atttataaat aatattttat	420
aatatatata atattatata atatagaata ttatatatta tatattacat attatataat	480
atat	484

<210> 98
 <211> 244
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(244)
 <223> MAR of chromosome 1 genomic contig; 73556..73879

<400> 98 attatatatt atattatata atatataata atattatata attatatatt acattatata	60
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3024-119-SEQ.ST25

atatataata atattatata ataatatata attatataat atataataat attatataat 120
 attatataat attatataat atataaatat ataataatat atattatatt atataatagt 180
 atatattata ttatataata tatgttatta tattatataa tataaactat tatataatat 240
 aata 244

<210> 99
 <211> 463
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(463)
 <223> MAR of chromosome 1 genomic contig; 179038..179500

<400> 99
 tacaatatat tttctattat atataattttg tattatatat aatatacaat atatttttcta 60
 ttatatataa tatattttgt attatatata ttacaatata ttttgtatta tataatatat 120
 aatacaatat aatatattgt attatataat atataatact atataatata ttgtattata 180
 tattatatat aatactatat aatatatttt attatatatt atataataa ctatataata 240
 tattttatta tatattatat ataatacaat atataatata ttgtattata atacaatgta 300
 ttataatgta ttatatataa tatataatac aatatataat attatatata tttatatata 360
 tatatatttt gtattatata ttttgtatta tatatatttt gtattatata tttatatttt 420
 atattataat tatgttttgc attatatatt tcatattata tat 463

<210> 100
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(390)
 <223> MAR of chromosome 1 genomic contig; 55617..56006

<400> 100
 tgtataatat atataacttta tatataatat atataacttta tatatatact atataactaat 60
 atatataata tatactatat ataatatata ctaatatata taatatatac actatatata 120
 atatatacta atatatatta tatatacttt atataatata tactaatata tataatatat 180
 atactttata tataatatat actaatatat ataagtata tactttatat ataatatata 240
 ctaatatata atatatatac tttatatata atatatacta atatatatta tatatacttt 300
 atatatataa tatatactta tatattatat atgcttatat ataatatata cactaatata 360
 taatatatat actttatata ttatatttta 390

3024-119-SEQ.ST25

<210> 101
 <211> 582
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(582)
 <223> MAR of chromosome 2 genomic contig; 1157405..1157986

<400> 101
 tgtatatgta tatatacaca tacgcacata tatgtatatg tatatatata catacgcaca 60
 tatatgtata tgtatatata cacatacgcacatatatgta tatgtatatg tatatgtata 120
 tatacacata tacacatata tgtatatgta tatatacaca tatacacata tatgtatatg 180
 tatatatata catatacaca tatatgtata tgtatatata cacatacaca tatatgtata 240
 tgtatatgta tatatacaca tacacatata tgtatatgta tatgtatata tacacatata 300
 cacatatata catatatgta tacatatatg tgtatatata tacacatata tatacatata 360
 tgtatacata tatgtgtata tatacacata tatatacata tatacatata catatatatg 420
 tgtatgtata tatacacata tacatatata tgtatatgtg tatatatatt agacagatat 480
 atatgtacat atacatatat atgtatatgt atatgtatat gtatatgtat atgtatatgt 540
 atatgcatat ataatatata tatacatata tgtatatgta ta 582

<210> 102
 <211> 322
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(322)
 <223> MAR of chromosome 2 genomic contig; 1858638..1858959

<400> 102
 acaccatata tacaccatat atatacatat catatatata ccatatatat acataccata 60
 tatataccat atatatacat accatatata cccatatat atataacca tatatatata 120
 ccatatatat acataccata tatataccat atatatacat accatatata taccatatat 180
 atataacca tatatatata ccatatatat acataccata tatatacacc atatatatat 240
 ataccatata tataccatat atacaccata tatatacacc atatatacac accatatata 300
 ccatatatat acaccatata ta 322

<210> 103
 <211> 914
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(914)

<223> MAR of chromosome 2 genomic contig; 5712196..5713109

<400> 103

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aaatatatat tctatatata gaaaatatat attctatatata tatagaatat atatagaata      60
tatattctat atatattcta tatatataga atatatatat aaaacatata ttctatatat      120
aaaatatata ttctatatat ataaaatata tattctatat atatagaatg tatataaaat      180
atatattcta tatatataga atgtatatata aatatatatatt ctatatatat agaatgtata      240
taaaatatat attctatatata tatagaatgt atataaaata tatattctat atatatagaa      300
tatatataac atatatatga aatatatata aaatatatat aaatacatat ttctatatat      360
aaatatatat aaatacatat ttctatatat aaatatatat caatacatat ttctatatat      420
aaatatatat aaatatatat tcatatatat aaaaatatat aaatatatat tcatatatat      480
aaaatatata tgaatatata ttctctatat ataaaatata tataatatat attatatata      540
taaaatatat ataatatata ttatatatat aaaatatata taatatatat tcatatatat      600
aaattatata taaatatata ttcatatata taatatatat aaatatttat ttcatatata      660
aaatatattt aaatatatat ttctatatag aatatatatatt ctatatataa aatatatata      720
taaatatatt ttctatatag aaatatatat gaaatatata gaatatatat aaatatatat      780
tatatatact atatatacaa tatatattat atataaaata tatatacaat atatattcta      840
tatattaata tatagaatat atattaacat atatttcaat atattaatat atgaaatata      900
tataaatatt tcat                                             914

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<210> 104

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(370)

<223> MAR of chromosome 2 genomic contig; 5713613..5713982

<400> 104

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tatttcatat ataatatata tataaaatat atatttcata tacataatat atataatata      60
ataaaatat atatttcata tatataatat atataatata tataaaacat atatttcata      120
tataatatat ataaactata tatttcatat ataatatata taaactatat atttcatata      180
cataatatat ataatatata tttcatttat attatatata taatatatat ttcatatata      240
taatatataa aatagatata aatatatata aatatatatatt tcatatataa tatatataaa      300

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3024-119-SEQ.ST25

atatatatatta atatatatatt tatatataat atatatatatt catatatataa tataaaaaaa 360
tatatatattc 370

<210> 105
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(442)
<223> MAR of chromosome 2 genomic contig; 7481647..7482088

<400> 105
atataaatta tataatatgt tatataatat ataaatatat tatataacat gttatataat 60
atataacatg ttatataata tataacatgt tatataatat ataacatggt atataatata 120
taacatgta tataatatat tatgtaatat gttatataat atataatata ttatataaca 180
tggtatataa tatataacat gttatataat atggtatata atatataaat atattatatt 240
atatgttata taatatataa atatattata ttatatgtta tataatatat aaatatatta 300
tattatatgt tatataatat ataaatatat tatattgtat gttatataat atataaatat 360
attatatgt atggtatata atatataaat atattatatt gtatgttata taatatataa 420
atatattata ttatatatgt ta 442

<210> 106
<211> 338
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(338)
<223> MAR of chromosome 2 genomic contig; 9594557..9594894

<400> 106
tatataaata tataccatat atataaatat atatattcca tatataaata tatatatattcc 60
atatatataa atatatatat tccatatata aatatatata ttccatatat ataaatatat 120
atataaatat atatattcca tatatatataa tatatatata aatatatata ttcatatata 180
aatatatata tattccatat ataaaaatat atatatatcc catatatataa aatatatata 240
tattccatat atataaatat atatatatcc catatatata aatatatata tattccatat 300
atataaatat atatatatcc catatatata aatatata 338

<210> 107
<211> 364
<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(364)

<223> MAR of chromosome 2 genomic contig; 10519720..10520083

<400> 107

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ttatatatat ttataataat atatataagc tatatatatt tatatataat atattatata    60
tattagctat atatatttat ataataatat attatatatt agctatatat atttatatat    120
aataatatat aaagctata ttttatata tattatatat tagctatata ttttatata    180
taatatatta tatattagct atatatttat atataataaa taatatatat attagctata    240
tatatttata tataataata tataaagct atatatttat atataatata ttatatatta    300
gctatatata tttatatata ataatatatt atatattagc tatatatatt tatatataat    360
atat                                                                 364

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<210> 108

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(342)

<223> MAR of chromosome 2 genomic contig; 11481943..11482284

<400> 108

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tacatataat atataattat atataatata tattatatat tacatatata atatatatat    60
tacatatgta atatatatat tatatatgta atatatatta tatatgtaat atatatatta    120
tatatgtaat atatattata tatatgtaat atatatatta tatatgtaat atatatatta    180
tatgtaatat atatatgtaa tatatatata atatatatgt aatatatata taatatatat    240
gtaatatata tataatatat atgtaatata tatattatat atatgtaata tatatcatat    300
atatgtaata tatatcatat atatgtaata tatatcatat at                                                                 342

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<210> 109

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(415)

<223> MAR of chromosome 2 genomic contig; 13499598..13500012

<400> 109

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tatatatata tatatatata atataatata atatatatat aaatatatat aatataaatt    60

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3024-119-SEQ.ST25

tatatatata tatttatata tacatatata aatatatatt tatatttata tataaatata	120
tataaatata tataaatata tatttatata tacatatata aatatatatg ttcatatataa	180
tatatatgta tatatacata tataaatata tatttatatat gtatatatat aatataatat	240
ataataataa tataatatat attatatataa tataatatat tatatatatat atatatataa	300
tataatatat aatatatatat atataatata tatttatatat tatataatat ataaaatata	360
tatttatataa tatatatata taatatatat aaataaatat atataaagat ataaa	415

<210> 110
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(330)
 <223> MAR of chromosome 2 genomic contig; 16370976..16371305

<400> 110 catttacata tgtatgtata agtatgtata ttacatactt atacatacat acttataaat	60
atataagtat aatacatata tactttataaa tatataagta taatacatat atactttat	120
atatataagt ataatacata cataacttata catatataag tataatacat acatacttat	180
acatatataa gtataatata tacatactta tacatataag tataatacat acatacttat	240
acatatataa gtataatata tacatactta tacatatata agtataatata atactttatta	300
catatgtata taagtatat acatacttat	330

<210> 111
 <211> 702
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(702)
 <223> MAR of chromosome 2 genomic contig; 626641..627342

<400> 111 tatatatata catatacata tataatatat atacatatata atatatatta tatatacata	60
tatattacat atatcatata tacatatata ttatatatac atatatatta tatatatcat	120
atatacatat atatattata tatttatatat atcatatata catatatatt atatatatta	180
tatatatcat atatacatat atatttatata tatttatatat acatatatat tatatatatc	240
atataaacat atatattata tatatcatat atacatatat attatatata ttatatatat	300
catatatata tatatattat atatatcata tataatatat attatatata ttatatataa	360
tatatattat atatacatat atatttatata tacatatata ttatatatac atatatatta	420

3024-119-SEQ.ST25

tatatacata tatatttat atacatatat attatatata tacatatata ttatatatac	480
atatatatta tatatacata tattatatat acatatatat tatatatata tatatttat	540
atatacatat atattatata tacatatatt atatatatac atatatatta tatatacata	600
tattatatat atacatatat attatatata catatattat atatacatat atattatata	660
tacatatata ttttatatat atataatata ttttttatat at	702

<210> 112
 <211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(679)
 <223> MAR of chromosome 2 genomic contig; 3196047..3196725

<400> 112	
atatattata tattcatata tcataaatat atatattata tattcatata ttatatatct	60
atatatttat atattcatat attatatatc tatatattta tatattcata tattatatat	120
ctatttatat attcatatat tatatatcta tatattttat atattcgtat attatatatc	180
tatatattat atattcgtat attatatatc tatatattat gtattcatat atatctatat	240
attatatata ttcatatata ttataaatta tattcatata gtatatatct attataaatg	300
tatattcata tagtatatat ctatatatta taaatataca tatatttat atttatatat	360
tatatattca tatagatcta tatatttat atattcatat atgaatatat atattatatg	420
tatatatatt ataaatatat ttatatagta tagatattat atagtatatg catatttata	480
ttataaataa ttacatagt atatgtatat ttataaatta tatatattta catattacat	540
gtatatttat atattataaa tacatattta catattataa atatatttat atattatgaa	600
tataatttat atattattac atatttacat atatgcatag ttatatatta taaatatgca	660
tttatgtaaa tatatattt	679

<210> 113
 <211> 728
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(728)
 <223> MAR of chromosome 2 genomic contig; 3196778..3197505

<400> 113	
tacataaata tatatttaca atatgtaa atctgatatg taaatatgta ttataatat	60

3024-119-SEQ.ST25

ataaatatac atataaatatg taaatatata aatatacata tactatgtaa atatatgtta	120
tatatatacata tactatataa atatagaata tataaatata catatactat ataaatatgt	180
aatatataaaa tatatactat ataaatatac atatactata taaatgtatt tataatatat	240
aaatatacat atactatata aattcatata tgaatatata atatataaat atatataata	300
tatgaatata tactcatata taaatatata tgaatatata ttataaatat atagatataa	360
tatgaatata tatttataat atatagatat atatttatatg aatatatatt tataatatat	420
agatatatac catatgaata tatattatac actatatgaa tatatattta taatatataa	480
atagatatat actatatgaa tatataatat atatactcta tgaatatata atatatatac	540
tatatgaata tatttatatac tgtatgaata tataatatat agatgtatac tatatgaata	600
tataatatat agatatatat actatatgaa tatatataat atatagatat atactatatg	660
aatatatatg atatatagat atatactata tgaatatata atatatagat atatatttat	720
gatatatg	728

<210> 114
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(413)
 <223> MAR of chromosome 2 genomic contig; 2560638..2561050

<400> 114	
atataaatat atatttatat attttatata aatatatata ttatatatt ttatatataa	60
tatatatatt tatatatatt tatataaata tatatattta tatatattta tataaatata	120
taaatatata tatttatata aatatataaa atatataaat atatttatat aaatatataa	180
aatatataaa tatatttata taaatatata aaatatataa atatatttat atataaatat	240
ataaaatata taaatatctt tatatataaa tatataaaat atataaatat ctttatatat	300
aaatatataa aatatataaa tatatttata tataaatata taaatatat aaatatattt	360
atatacaaat atataaaata tataaatata ttatatata aatatataaa ata	413

<210> 115
 <211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(361)
 <223> MAR of chromosome 2 genomic contig; 4965309..4965669

3024-119-SEQ.ST25

<400> 115
tatacgtata tatacatata tatacgtata tatatacata tatatacgtata tatatacata 60
tgtatatatg tgtgtacatg tatatatata catatgtaca tatatatgta cacatatata 120
tatacatata tatgtacaca tatacatata tatgtacaca tatacatata catatatatg 180
tacacatata tatacatata tatgtacaca catatatata catatatatg tacacacata 240
tatacgtata tatgtacaca catatatatg tatatatatg tacacacata tatacgtata 300
tatatgtaca cacatatata tacgtatata tatgtacaca tatatatata cgtatatata 360
t 361

<210> 116
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(325)
<223> MAR of chromosome 2 genomic contig; 5258150..5258474

<400> 116
tacacacaca tatacatata tacatatata cgtgtatacgtata tatacgtata tacgtatata 60
tacatatatg tatacgtata cgtatatatg tatatatata tatatgtata cgtatacgtata 120
tatacgtata tatacatata tgtatacgtata tacgtatata cgtatatata catatatgta 180
tacgtatacgtata tatatacgtata tatatacata catatgtata cgtatacgtata tatatgtata 240
tatacgtata tgtatacgtata tacatatata cgtatatata cgtatatgta tatgtatata 300
cgtatatgta tatatgtata tatarac 325

<210> 117
<211> 1508
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(1508)
<223> MAR of chromosome 2 genomic contig; 6057499..6059006

<400> 117
atataatata tataaattat ataatatata aaaattaata tataatatat ataaattata 60
taatatataa attaatata taatatatat aaattatata atatataaat taattatata 120
atatatataa attatataat acatataaat taattatata atatataaat tatataatat 180
atacaaatta tatactatat taattatata ttatatatt aattatataa tatatatataa 240
ttatatatta ttaaattat tatataatat ataaattata taatatataa attaatata 300

3024-119-SEQ.ST25

taatatataa attatataat atataaatta attatataat atataaatta tataatatat	360
aaattaattg tataatatat aaattaatta tataatatat aatatataat taataaataa	420
ttatatatta attatataat taataaataa ataataaata tatataatta atatataata	480
tacatcatat atatcacata tagattatat aatagttata tattatataa taaattatat	540
ataatatata ataaacatat ataacatatg ttatatatta cataatatag tataatatat	600
aacatatgtt atatattaca taatatagta taatatataa catgtttatat attacataat	660
atagtataat atataacata tgttatatat tacataatat agtataatat ataacatatg	720
ttatatatta cataatatag tataatatat aacatatgtt atatattaca taatatagta	780
taatatataa catatgttat atattacata atatagtata atatataaca tatgtttatat	840
attacataat atagtataat atataacata tgttatatat tacataatat agtataatat	900
ataacatatg ttatatatta cataatatag tataatatat aacatatgtt atatattaca	960
taatatagta taatatataa catatgttat atattacata atatagtata atatataaca	1020
tatgtttatat attacataat atagtataat atataacata tgttatatat tacataatat	1080
agtataatat ataacatatg ttatatatta cataatatag tataatatat aacatatgtt	1140
atatattaca taatatagta taatatataa catgtttatat attacataat atagtataat	1200
atataacata tgctatatat tacataatat agtataatat atatgttata tattacataa	1260
tatagtataa tatataacat atgtttatata ttacatatta tagtataata tatatgttat	1320
atattatata atatagtata atatataatg tatgtttatat attatataat atagtataat	1380
atataacatg ttatatatta tataatatag tataatatat atgtttatata ttatataata	1440
tagtataata tataatatat gttatatatt atataatata gtataatata tatgtttatat	1500
attatata	1508

<210> 118
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(415)
 <223> MAR of chromosome 2 genomic contig; 7996866..7997280

<400> 118	
caattatata atatacatat tatataattg tataaattat acaatcatat aatttatatta	60
tatataatat acatataata taattatata taattatata attttataat ataattatat	120
ataattatat aatttatatat aatatatatt ataattatat atataatata tatattatat	180
atattatata taatatataa ataatatata taatatatat ataattatat ataataatat	240

3024-119-SEQ.ST25

atgtaatata tataatatat atataatata ttatttataa ttatatatta tatatatatt	300
ataatatata taattataaa taatatatat tataatatat ataataatat atatataatt	360
atatataata atatatatatta taattatata taataatata tataatttat ataatt	415

<210> 119
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(526)
 <223> MAR of chromosome 2 genomic contig; 8300930..8301455

<400> 119	
tatatcatat gatataattat acaatatatc atataatatg atatattata tgatatattg	60
tacaatatat catatgatat atgatatatatt atacaatata tcatataagg tatatatattat	120
atcatatatata atatataata taatatatga tataatatat gatatatgat atataatata	180
tgatatatga tatatgatat ataatatatg atatatgata tatgatatat aatatatgat	240
atatgatata tgatatataa tatatgatat atgatatatg atatgatata tgatatatga	300
tataatatat gatataatat atgatatatata ttatatgata tataatatat gatataattt	360
atatgatata taatatatga tatataatat ataatatatg atatgatata tattatatca	420
tatataatat ataatatatat atatgatata tattatatatat ttttatacat tatatatata	480
aactatataa caatataaca tattatgtgt ataatatata ttacat	526

<210> 120
 <211> 402
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(402)
 <223> MAR of chromosome 2 genomic contig; 8576553..8576954

<400> 120	
atgtatatatta tatacaatat agtatatcat atatagtata tattatatag taatgtatta	60
tatataatgt ataatgtata aatatataat atatactaca tactatacta ttatatatac	120
tatatattat atatgatata tactatatat aatatgctat atattatact atataatatg	180
ctatatatta tactatataa tatgctatat attatactat ataatatgct atatattata	240
ctatataata tgctatatat tactatatat aatatactat ataatatgct atatattata	300
ctatataata tactatatat tactatatat aatatactat ataacatact atatattata	360
tatgatacat atactatatt acatatataa tatatatata ta	402

3024-119-SEQ.ST25

<210> 121
 <211> 477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(477)
 <223> MAR of chromosome 2 genomic contig; 8785649..8786125

<400> 121
 tatttatata tatatttata tatatatatta tatatatatta tatatatatt tatatatata 60
 tttatatata tatttatata tttatatata tatattttta tatatttata tatatatatta 120
 tatatttata tatatttata tttatatata tatttatata tatttatata tatttatata 180
 tatatatatta tatatatatta tatatatata tttatatata tttatatata tttatatata 240
 tatttatata tatatttata tatatatattca tatatatatta tatatatatt catatatatt 300
 tatatatata ttcatatata tttatatata tatttatata tatatttata tatatttata 360
 tatatttata tatatatatta tatatatatt tatatatata tatttatata tatatttata 420
 tatatatatt tatatatata tttatatata tatatttata tatatatatta tatatat 477

<210> 122
 <211> 773
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(773)
 <223> MAR of chromosome 2 genomic contig; 10064737..10065509

<400> 122
 atattatata tattacatat atatttatatt gtatataata tatatatattat attgtatata 60
 atatatatat tatattgtat ataatatata tatttatattg tatataatat atatattata 120
 ttgtatataa tatatttatat tgtatatatt atattgtata tatttatattg tatacaatat 180
 atatttatatt gtatacaata tatatttatat tgtatataat atatttatatt gtatataata 240
 tatttatattg tatatatattat attgtatata atatattata ttgtatataa tatatttatat 300
 tgtatatatt atattgtata taatatatta tatgtatata atatagtgtata tactatatta 360
 tataatatat attatataca atatataata tattgtatat catatatgat atattgtata 420
 taatatataa tatatgatat attgtatata atatattata tatgatatat tgtatatattat 480
 atattatata tgatatattg tatatttatat attatatatt gtatatattgta tatttatatat 540
 tatatatattg atataatatg ttatatattg tatataatat gttatatatt atatattgta 600

3024-119-SEQ.ST25

tatatgttat atattatgta ttgtatataa tatgttatat attatatatt gtatataatg	660
tattatatat tatatatatt atatatgtga tataatgtat tatatatgtt atattatata	720
ttatatattg tatataatat attatataca ttatattata tattatatat tgt	773

<210> 123
 <211> 1554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1554)
 <223> MAR of chromosome 2 genomic contig; 1039775..1041328

<400> 123	
ataatatatt aaatgtatat ataatatatt aaatataaat atatttataa tatataaata	60
tttatataaa tataaaatat atattaaata taaatatata taaaatatat attaaatata	120
taaaatataa atatatatta aatatatatt aaatatataa aatataaata tatattaaat	180
atatttttaa tatataaaat ataaatatat attaaatata ttttaaatat attaaatata	240
aatatatatt aaatatattt taaatatatt aaatataaat acatatatta aatatatatt	300
atatatataa aatatataaa atataaatat atattaaata tatataaaat atatatgtta	360
aatatataaa agatatataa aatataaata tatattaaat atatatataaa tatatatata	420
ttaaatatat atattaaata taaatatata taaaatataa atatatgtat taaatatata	480
tattaaatat aaatatatgt attaaatata tattaaatat gaatatatgt attaaatata	540
tattaaatat aaatatatgt attatatata tagaatataa atatatgtat taaatatagt	600
atattaaata taaatatata taaaatatat attaaatatg aatatatata aaatatatat	660
attaaaaata tatataatat aaatatatat aaaatatata tattaaaaat atatatata	720
taaatatata taaaatatat atattaaaaa tatatatataa atatatatat taaaatata	780
tataaaatat atatatataa aatatatata aaatatatat attaaaaata tatattaaat	840
ataaatatat atattaaaaa tatatatata atataactat atattaaata tatattaaat	900
ataactatat attaaatata tattaaatat aactatatat taaatatata ttaaataata	960
ctatatatta aatatatatt aaatataact atatatataa tatatatata atataactat	1020
atattaaata tatattaaat ataactatat attaaatata tattaaatat aactatatat	1080
taaatatata tgaaatataa ctatatatta aatatatatt aaatataact atatgtatta	1140
aatataaata tatgtcttaa atatatatta aatataaata tatgtattaa atatatatta	1200
aatataaata tgtgtattaa atatatatta aatataaata tgtgtattaa atatatatta	1260
aatataaata tgtgtattaa atatatatta aatataaata tgtgtattaa atatatatta	1320

3024-119-SEQ.ST25

taaatataaa tatatgtatt aaatatatat taaatataaa tatatattaa atatatatat	1380
taaatataaa tatatattaa atataaatat atatattaaa tatatatatt aaatataaat	1440
atatataaaa tatatatatt aaatataaat ataaatataa aatatatatatt aaatataaat	1500
acatatatta aatatatgta ttaaatatat atataaaata tatgtattaa atat	1554

<210> 124
 <211> 650
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(650)
 <223> MAR of chromosome 2 genomic contig; 3944813..3945462

<400> 124	
catgatatat tatgtataat atatattata gattacatat aaattatata tataatatat	60
aattatataa tatataatat tatataatat attatatata ttatacaatt atataatata	120
tataatatat aattatataa tatataatat acaattatat aatatataat acaatataat	180
atatatttaa tatattatat aatacatatt taatatatta tatattatat gttatatact	240
aaatatataa tatgtattta atatatacta ttatatatgt aatatattat ataatttatg	300
taacatatta tatattatat atgcaatata ttacatgtta catatatatt acatataata	360
tatgtaatat ataatataca ctatattatt atagtatata atatactata ttatgtaatt	420
atataatata gtatattata cactatatta tattatcata taattatata ttatatacta	480
tattacatat atattatgta atataaatatg caatatgtta catatataat atatatgtat	540
tatatagtat atatactata gtatatataa aatatatgct ataatatata ttttatatat	600
tatataatat acatataatgta tcatatatta tatataatat attttataat	650

<210> 125
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(441)
 <223> MAR of chromosome 2 genomic contig; 5314265..5314705

<400> 125	
tataaatata tatgaaatat atataaatta tatataattt atatatacat atataaatta	60
tatataaatt atatataaat tatatataca tatataaatt atatattata tataaaattg	120
tatatattta tatataaatt gtatatataa tttatatata aattgtatat ataatttata	180
tatacaatgt atatattaat ttatatatat attgtatata taatttatat atacattgta	240

3024-119-SEQ.ST25

tatacaat	atatatacat	tgtatatata	atttatatat	acattgtata	tacaatttat	300
atataaatta	tattat	atatagtata	tataaatata	tatactatat	ataaattata	360
tatttattta	tatattatat	tatttatata	taaattatat	attatttata	tatacattat	420
atataaatta	tatattat	a				441

<210> 126
 <211> 1169
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1169)
 <223> MAR of chromosome 2 genomic contig; 5953971..5955139

<400> 126	
atgtattcat	atttatatt
tatatataaa	taatatacat
tcatattata	tatttatata
	60
taaataatat	atattcatat
tatatattta	tatatataa
tataatatat	ttatgtataa
	120
ataatatata	tattcatatt
atatatttct	atataaataa
tatatatatt	catatttatat
	180
atttatatat	aaatatataa
tatatattata	tataaatata
taatataatt	atatataata
	240
tatatattca	tatttatatat
ttatatataa	atatataata
tatttatata	taaataatat
	300
atatattcat	atttatatt
tatatataaa	taatatacat
tcatattata	tatttatata
	360
taaataatat	atattcatat
tatatactta	tatatataa
atatatattc	atatttatata
	420
cttatatata	aataatatat
attcatatta	tatatattata
taaaaataat	atatattcat
	480
atttatatt	tatatataat
atatatattc	atatttatata
tttatatatt	ctatatattc
	540
atatttatata	tttatatata
aataatgtat	attcatatta
tatatattata	tataaataat
	600
gtatattcat	atttatatt
tatatataaa	tatatattca
tatttatatat	ttatatataa
	660
atatatattc	atatttatata
tttatatata	aatatatatt
catatttatat	atttatataa
	720
aatatatata	ttcatattat
atttatatat	aaatatatat
attcatatat	atatttatat
	780
ataatatata	tattcatatt
atatattt	atataatata
tatattcata	ttatatattt
	840
atatataaat	aatatatata
ttcatattat	atatttatat
ataaataatg	tatattcata
	900
ttatatattt	atatataaat
aatgtatatt	catatttatat
atttatatat	aaatatatat
	960
attcatatta	tatatattgta
tataaatata	tattcatatt
atatatttgt	atatatattc
	1020
atatatattt	atatataaat
atataatatt	catatttatat
ataaatatat	atattcatat
	1080
tatatattta	tatatataaa
taatatatat	tcatattatt
tatatatata	aataatatat
	1140
attcatatta	tttatatata
tataaata	
	1169

3024-119-SEQ.ST25

<210> 127
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(653)
<223> MAR of chromosome 2 genomic contig; 6427669..6428321

<400> 127
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 60
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 120
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 180
tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatacatgtg 240
tacatgtgta tacatatatg tatacatgtg tacatgtgta tacatatatg tatacatgtg 300
tacatgtgta tacatatatg tatatatgtg tatacatata tgtatatatg tgtatatatg 360
tatacatata tgtatataag tgtatatatg tgtatatgta tataagtgtg tatatgtgta 420
tatgtatata agtgtatata tgtgtatatg tatataagtg tatatatgtg tatatatgta 480
tacatatatg tatatatgtg tatatatgtg tatatgtata taagtgtata tatgtgtata 540
tatgtatata tatatatgtg tatatatgta tacatatatg tatatatgtg tatatatgta 600
tacatatatg taaatatgtg tatatatgtg tatatgtata taagtgtata tat 653

<210> 128
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(414)
<223> MAR of chromosome 2 genomic contig; 10890453..10890866

<400> 128
tatattttgt aaatatatat atagtaaata tatgtaaata tatatatattt gtaaatatat 60
atatattttg taaatatatg taaatatata tattttgtaa atatatgtaa atatatatat 120
tttgtaaata tatgtaaata tatatatattt gtaaatatat gtaaatatat atattttgta 180
aatatatgta aatatatata ttttgtaa attatgtaaat atatatattt tgtaaataata 240
tgtaaataata tatatatattt gtaaatatat atacatatat attttgtaa tatataaaca 300
tatatatattt ataaatatat ttataaatat atatattgta aatatattta taaatatatt 360
tataatatat atattgtaa tatgtttata aatatatata ttgtatatat aaat 414

<210> 129

3024-119-SEQ.ST25

<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(496)
<223> MAR of chromosome 2 genomic contig; 13952568..13953063

<400> 129
taatatacat attatatatt atatattgta tatataatat acatattata tattatatat 60
tgtatatata atatacatat tatatattat atattgtata tataatatac atattatata 120
ttatatattg tatatataat atacatatta tatattatat attgtatata taatatacat 180
attatatatt atatattgta tatataatat acatattata tattatatat tgtatatata 240
atatacatat tatatattat atattgtata tataatatac atattatata ttatatattg 300
tatatataat atacatatta tatattatat attgtatata taatatacat attatatatt 360
atatattgta tatataatat acatattata tattatatat tgtatatata atatacatat 420
tatatattat atattgtata tataatatac atattatata ttatatattg tatatataat 480
atacatatta tatatt 496

<210> 130
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(317)
<223> MAR of chromosome 2 genomic contig; 16942865..16943181

<400> 130
tctcctagta gttatatata tatatatgtg tatatatata tctcctagta gatatatata 60
tatatatatc ctagtagata tatatatata tatatcctag tagatatata tatatatata 120
tcctagtagt tatatatata tatatatcct aacagttata tatatatata tcctagtagt 180
tatatatata tatatcctag tagttatata tatatatata tcctagtagt tatatatata 240
tatatcctag tagttatata tatatatatc ctagtagtta tatatatata ttatatatta 300
tataatatat atataat 317

<210> 131
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(464)

<223> MAR of chromosome 2 genomic contig; 17217049..17217512

<400> 131

acatactata tatatacaca tactatatat actatataca gtatatagta tacatatact	60
atacatatac atatactata catatacata tacatatact aagtatacgt atatacagta	120
catagtatat gtatactata tagtatgtat atatagcata tagtatgcgt atactctata	180
tagcatatag tatgcatata cgctatatag catatagtat gcatatacta tatatagtat	240
agagtatgcg tatactatat atatagtata gagtatgcgt atactatata tatagtatag	300
agtatgcgta tactatatat atagtataga gtatgcgtat actatatata tagtatagag	360
tatgcgtata ctatatatat agtatagagt atgcgtatac tatatatata gtatagagta	420
tgcgtatact atatatatag tatagagtat gtatatatat agta	464

<210> 132

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(430)

<223> MAR of chromosome 2 genomic contig; 19647266..19647695

<400> 132

tgtaaataata tgtaaataata tttttatatt atatattata taaaaataata atatataata	60
tataatatat aaactatata ttaatatat atatataaac tattatataa atacatatta	120
aatatattat atttttaata tttatatatt aaatataata tatatttaaat atttatatat	180
taaatatata atatatttaa tttttatata atatatagca ttttttatat ttatattata	240
tataacattt tatatttata ttttatattt tatatattta atttatattt atattatatt	300
tatatttata ttatatataa cataattata tatattttca tattgtatat aataaagaaa	360
tgtatatttg ttatatataa tatatattat ataatttatt atatattata taatatatat	420
tatataatat	430

<210> 133

<211> 2131

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(2131)

<223> MAR of chromosome 2 genomic contig; 20481223..20483353

<400> 133

tatatataaa tatatttata tttaatatat atttatataa atatattttt atataaatat	60
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3024-119-SEQ.ST25

atattttaata taaatatctt tatattttaat atatattttaa tataaatatc tttatatatta	120
atatatatatt atatataaat atatattttat atttaaatata tattaatatt taatatacgt	180
ttatatattaa tatatatctt tatataaata tatttatatt aacatatatt tatatatataa	240
tatatattata tttaatatat ttacatatata atatattttat atgtaatatata tttacatatata	300
aatatatatta tatttaatat atatgcatat gtaaatatat ttatatattaa taatattttat	360
atataaatat atttatattt aataatattt atatataaat atattttatat ttaatatata	420
ttaaatatat atttatattt aatatatatt aatattttaat atatattttat atttaaatata	480
tatttatatat aaacatatat ttatatattaa tatatatattat atataaacat atattttatat	540
ttaatatata ttatatataa acatatattt atattttaata tatattttata tttaatatat	600
tatatataaaa catatatatta tttttaatat atattttatat taaatatata ttatatataa	660
acatatattt atattttaata tatattttata ttaaatatat atttatattt aatatatata	720
tattaaatat atattttatat ttaatatata ttttatattaa atatatatatt atattaaata	780
tattttatatt taatatatat ttatatataa tatatatataa atattttaata tatattttata	840
tttaatatat acatatatat ttatatattaa tatatacata tatattttata tttaatatat	900
acatatatat ttatatattaa tatatacata tatattttata tttaatatat aaatttatat	960
tttatatata taaaaatata tttttatatt taatatatat aaatatatat ttatatattaa	1020
tatatatatatt tatattgaat atatacataa atatatatatt atattttaata tataaacata	1080
tattttatatt tatatatataa atatatatatt atattttaata tataaatata tttttatatt	1140
taatatatatt atatatacta atatattttat atttaaatata tttatatata gatatatatta	1200
tattttaatat atttatgtgt attaatatat ttatatattaa tatattttata tattaatatata	1260
tttatatttt atattttatat attaatatat ttatatattta tttttatatt ttatatattt	1320
atatatttaat atattttatat ttatatatat ttttatatat taataaattt atattttata	1380
tattttatata ttaataaatt tatattttat acagttatat aaatatattt atattttata	1440
cagttatata aatatattta ttttttatag ttatatataa atattttatat tttatacagt	1500
tatatataaata tttttatatt ttatacagtt atataaatat atttatattt tatacagtta	1560
tataaatata ttttatattt atacagttat ataaatatat ttatatattta tacagttata	1620
taaatatatt tatattttat acagttatat aaatatattt atattttata cagttatata	1680
aatatatatta ttttttatac agttatataa atatattttat attttatata gttatatataa	1740
tatattttatg ttttatacat ttatatataa atattttatat tttatacatt tgtattttaat	1800
atatattttat atataaatat atttttatatt taatatattt atatataaat atatattgat	1860
atttaaatata tttttatata taaatatata ttgatattta atatgtttat atataaatat	1920

3024-119-SEQ.ST25

atattttatat ttaatatata tgtttatata tcaatatata tttatatatta atatataattt	1980
acatatataat atatattttat atttgatata tttttatatt tgatatatat tttatatata	2040
ttaatatatt tacatttgat atatatttta tatatatataa tatattttaca tttgatatat	2100
attttatata tattaatata tttacatttg a	2131

<210> 134
 <211> 842
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(842)
 <223> MAR of chromosome 2 genomic contig; 20483478..20484319

<400> 134	
tatatatttta tgtttaatat atattttatag ataaatatat attttacgttt aatatatatt	60
tatagataaa tatatatatta cgtttaatat atattttatct ataaatatat ttacgttttaa	120
tatatatttta tatattaata tttttatggt taatatatat ttatatatat taatatattt	180
atgttttaata tatattttata tattaatata tttatgttta atatattttat atatattaat	240
atattttatgt ttaatatata tttatatggt aatatatttta ggtatatata tttttatatg	300
ttaatatata ttttatattaa tatatttatat ttatatataa aagtatatat aatatataaa	360
tatttatataa attatttatat agtatttttta tatatatatta tatataaatt ttatatattt	420
tatatatata aatatatatt tatatataca ttttatatat aaatatatat ttatatatac	480
attatatata taaatatata tttttatatt ttatatataa atatatatat ttatatatac	540
atttttatata ttttatatat gtaaatatat atataaattt tatatatattgt atatataattt	600
ataaatttta tatatatatt tatatatata atatatatata tatatatataa ttttatatat	660
attatatata ttttatatttt atatattata tttttattta tatatatatta tatgtttatat	720
atattttatat ttatatattt tttttatttta tatattttat atatataattt atatatgtat	780
attatatata ttatatatta tataatatat tatatatatt atattatata ttttatattat	840
at	842

<210> 135
 <211> 645
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(645)
 <223> MAR of chromosome 2 genomic contig; 20897566..20898210

3024-119-SEQ.ST25

<400> 135
gtatatttat attatatatt atataatata tattatatat taataaatta tatataatat 60
aatatatatg tatatttata tttatgttat aatatacata taattatata tgtatgtata 120
catgtataca tatacgtata tgtgtatatg tatacatata ggtatatgtg tacatgtata 180
catatagga tatgtatatg tatacatgta tacatataat ataattacat atgtatgtat 240
acatacatat gtaattatat tatatatgta tatgtatatatt tatataatat ataatatgta 300
ttatatatta tacatgcata tttatatgta tattatatat acacatataa tataattata 360
tatgtatgta tatatacaca tatatatatta tattatatat gtatattata tacatatatt 420
tatattatat atgtatatat atttatcata tttatatgta atatgcatgt gtaataaata 480
atatacacat ttatatatgt atattatata catatatatta tattgtatat gtatatatat 540
ttatatatat ttgtatatca tatatttata tattgtatat ttatgtatat tatatatatta 600
tatattatat atgtattata taatatatat gtaaatatat attat 645

<210> 136
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(722)
<223> MAR of chromosome 2 genomic contig; 21664541..21665262

<400> 136
tataatatat attatatatt atataaatatg taaaatatat attatatatt atataaatgta 60
ttatatatag aatataatat attctatgta ttctataatc tatataaatc atattatata 120
ttatatagaa tattataaat aatatattct atattatata tagaatatat tctatatgtt 180
tatattctat atattatata tgaaatagta tataaaatat atataatat tataaaatat 240
gatataatat atataaaaa taatatataa tgtataatat ataaaataat atataaatgta 300
taatataata aataatatat aatgtataat atataaaata atatatatg tatattatat 360
aaaataatat ataattgata ttatatataa aataatatat aatgtatat attatatata 420
taatataata tgtatatata ataatatata atatattata tataaaataa tatataatat 480
attatatata aaataatat tattatatat aaaataatat ataatatatt atataaaaa 540
taatatatat tatataataa ataatatata atatattata tataaaataa tatatatatt 600
atataaaata atatatatta tatataaaat aatataatat atattatata taaaataata 660
tataatatat tatataaaaa tataaatata ttatatataa atataaaata taaaatatta 720
ca 722

3024-119-SEQ.ST25

<210> 137
 <211> 305
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(305)
 <223> MAR of chromosome 2 genomic contig; 22834991..22835295

<400> 137
 aatataaaat atatgatata taatacgtat tatatatgta taatacgtat tatatatata 60
 tatataatat ataatacata ttatatatgt atataatata tactaatata tataatgtat 120
 acattatata ttacataat atataatata taatatagaa ttataattat atataatata 180
 taatatataa ttatatatat tattatatat gtatttatat tatatatat atattatata 240
 taatatatat tatataatta tataagtata taattatgtt atatacataa taatatataa 300
 tatat 305

<210> 138
 <211> 352
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(352)
 <223> MAR of chromosome 2 genomic contig; 25277762..25278113

<400> 138
 taatatatat aatatattat atattatata taatatattt tataatatat aaaatatatt 60
 atatataata tataatatat ttataatat atataatata ttatatataa tatataatat 120
 attttataat atatataata tattatatat attatatatt tatatttatt tatatatattca 180
 taaatatata ttatatata atatatattta taatatatta tatataatat ataatatatt 240
 ttataatata ttataatata taatatataa tatattttat aatatatata atatataata 300
 tattatatat ttatatattt ttatatattc ataaatatat atatttatat ta 352

<210> 139
 <211> 342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(342)
 <223> MAR of chromosome 2 genomic contig; 25378452..25378793

<400> 139
 tatgtacata tatattttat atattatata taatatatat tatatgatat atataatata 60

3024-119-SEQ.ST25

ttatataata taatatataa aatatatata atatatatta tattaataa attatattat	120
atatatcata taatatattt tatatattat ataatatata ttatattata tatattttat	180
atattatatt atatattata tatatcatat aatatatatt atattatata ttttatatat	240
tatataatat atattatata tttttatata ttatataata tatattatat attttatata	300
ttatataata catatattat atataatata atatatatta ta	342

<210> 140
 <211> 663
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(663)
 <223> MAR of chromosome 2 genomic contig; 30209437..30210099

<400> 140	
aatatatatt acatattgta tatatagtat atgtaatgta tataatatag tatattctat	60
attgtataat agtaatatat agtatatgat atactatata ttacttatca tatatacaat	120
atatattata tcgtatattg tatatttatat attgtatata tgtaatatat gatatgtaca	180
tatgttatat atgtatataa tatactatat tatatatattgt atattatata catatataac	240
actatttatac aatatataat atagcatatt atatacaata tagcatatac aatatataat	300
atagcatatt atataataa tagtatatta tatacaatat ataatatagc atattatata	360
taatataata tagtatatta tatacaatat ataatatagc atatacaata tagtatataa	420
tatataatat agcatataca atatagtata ttatatataa tatataatat agcatgtaca	480
atatagtatg ttatatataa tatataatat agcatataca atatagtata ttatatataa	540
tatataatat agcatataca atatattata ttatatataa tatataatat agcatataca	600
atatagtata ttatatataa tatataatac agcatataca atatagtata ttacatacag	660
tat	663

<210> 141
 <211> 1200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1200)
 <223> MAR of chromosome 2 genomic contig; 31725089..31726288

<400> 141	
tgtacttata tattataatg tatatatataa gtatatactt tatatatact tatatattat	60

3024-119-SEQ.ST25

aatgtatatt attgtatata agtatatatc ataatatata cttacatatg ctcacatata	120
ttataatgta tattgtatat attatataca tattatatat gtataatgta tatatacatt	180
atatatgtat aatgtatata tacattatat atgtataatg tatatatata ttatatatgt	240
ataatgtata taatatatac aatatatgta taatatataa tatatacaat atatgtataa	300
tatacaatat atgtataata tacaatatat gtatagtata taatatatat tatatatgta	360
tagtatatta tatattatat atgtatagta tataatatgt ataatgtata tattataata	420
tattatatat aatatctata acaatataat atattgtata tattatatat aatatatatt	480
tatataatat atattatata taatatatta tgtattttatt tatattatat ataataaaa	540
tatatataat ataaataata tttattatat attaatataa atatttatat taatatatat	600
ttattatata taaataatat ctatgatata aataatatat aatatacatg tatatgttat	660
aatatataca tataatatac atgtgtatat atactataca tgtatatata acatgtatat	720
atatacatgt atatatatta tgtatacatg tatagtatat atacatgtat atatatacat	780
atatactata catgtatata tacatgtata tatatacata tatactatac atgtatatat	840
acatgtatat atacacatat atactataca tgtatatata catgtatata tatacatgta	900
tgttatatac attattataa tatacatata tagtatacat tatatacatt atataaatatg	960
cattattata atataatata cattattata atatacatta ttataatata atatacatta	1020
ttataatata cattattata atatacatta taataatata cattattata atatacatta	1080
taatattgaa gtatatatac tataatatat gtatatatta taatgtatat aatatacatt	1140
attatatata agtatgtatt atatataagt atatattata atatatgtat atacatatat	1200

<210> 142
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(325)
 <223> MAR of chromosome 2 genomic contig; 32147252..32147576

<400> 142	
aaatacaaat atttatttat atataatata taatataata tttttattta tatataatat	60
ataatttata attatataaa tatataatat atttatatat aatatataat tttattatat	120
attaattata tatataataa atatataata tatataattt tattatatat taatttatata	180
tataataaat atatataata tataataata ttatatacat tatatatataa tataaatatt	240
tatataatat ataataaat atattttatt atatataaat atataatata taatttatata	300
aatatataat atatttatat ataac	325

3024-119-SEQ.ST25

<210> 143
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(507)
 <223> MAR of chromosome 2 genomic contig; 32312662..32313168

<400> 143
 attattttata taaatattat atttatatta tttatataaa tattatattt atattattta 60
 tataaatatt atattttatat tttttatata aatattatat ttatattatt tatataaata 120
 ttatattttat attattttata taaatattat atttatatta tttatataaa tattatattt 180
 atattatttta tataaatatt atattttatat tttttatata aatattatat ttatattatt 240
 tatataaata ttatattttat attattttata taaatattta tttatattat ttatataaat 300
 attatattta tattattttat ataaatattt atttatatta tttatataaa tttttattta 360
 tttttatata aataatatat aaataaatat ttttatatgta tataaatatt atttatatta 420
 tttattttaaa taaataatat aaattaatat aaatattaat attattttatt ttattataaa 480
 taatataaat atttatattta tttttat 507

<210> 144
 <211> 339
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(339)
 <223> MAR of chromosome 2 genomic contig; 33651118..33651456

<400> 144
 aaatataata tattattttat atataatata aatgatatat tatgtatata taaaatataa 60
 ataatatatt atgtatatat aaaatataaa tattattttat atataaaaata taaataatat 120
 ttatatataa aatataaata ttatattatt tatatataaa atataaataa tatattattt 180
 atatataaaa tataaataat atattattta tatataaata atatataaaa tataaatata 240
 tattatatat aaataaaaata tatatattat atatataaat ttatatataa tatataaaat 300
 ataatatata tttttaatat ttattatata atatataat 339

<210> 145
 <211> 461
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(461)
 <223> MAR of chromosome 2 genomic contig; 45073053..45073513

<400> 145
 tgtgtataca tatatacgtg tacatataca tatatacatg tgtatatata tacgtgtaca 60
 tatacatata tacatgtgta tatatatgta catatacata tatacatgtg tatacatata 120
 tatatacatg tacatataca tatatacatg tgtatacata catatatata tgtacatata 180
 catatatata tgtgtatact tacatatata catgtacata tacatatata catgtgtata 240
 tatacatata tacacgtaca tatacatata tacatgtaca tatatacatg tatacatata 300
 tacatgtaca tatgtacata tatacatgta tacatatata catgtacata tgtacatata 360
 tacatgtata catatatata tgtacatatg tacatatata catgtataca tatatacata 420
 tgtacatacg cacagataga catatatata tatgtacata c 461

<210> 146
 <211> 1162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1162)
 <223> MAR of chromosome 2 genomic contig; 45487691..45488852

<400> 146
 attatattat ctatataaat ctattatatc tattatatta tctatataat atctattata 60
 tatattatat tatctatata aatctattat atatattata ttatctatat aaatctatta 120
 tatatattat attatctata tatctattat atattatatt atattatatt atatataata 180
 tctattatat atattatatt atattatatt atatataata tctattatat atattatatt 240
 atctatataa tatctattat atattatata ttatattata tataatatct attatatata 300
 ttatattata ttatatataa tatctattat atctattata tatattatat atatctatta 360
 tatctattat atatattata tataatatct attatatcta ttatatatat tatatataat 420
 atctattata tctattatat tatattatat ataatatcta ttatatctat tatatatatt 480
 atatatatct attatatcta ttatatatat tatatataat atctattata tctattatat 540
 atattatata taatatctat tatatctatt atatattata tatataatat ctattatatc 600
 tattatatat tatatatata atatctatta tatctattat atctattata tatatatcta 660
 ttatatctat tatatatatt atatacataa tatctattat atctattata tatattatat 720
 atataatatc tattatatct attatatata tactatctat tatatctatt atatatatta 780
 tatatgtact atctattata tctattatat ctattatata tatactatct attatatcta 840

3024-119-SEQ.ST25

ttatatatat	tatatatata	ctatctatta	tatctattat	atatattata	tatatactat	900
ctattatata	tctattatat	atattatatt	atattatata	tagtatctat	tacatatatt	960
atattatatt	atatataata	tctattatat	atattatatt	atattataaa	taatatatat	1020
aatatctggt	atatataata	gatattatat	ataatatata	atatatataa	tagatattat	1080
atatattata	ttatataata	tataatatat	aatataatta	atataaaata	tatataaatat	1140
ataattaata	taatatgtaa	ta				1162

<210> 147
 <211> 562
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(562)
 <223> MAR of chromosome 2 genomic contig; 45516233..45516794

<400> 147	
acatattata	tatattatat
ataatatata	ttatatatac
atattatata	tattatatat
60	
aatatatatt	atatatacat
attatatata	ttatatatac
atatatatat	tgtatataat
120	
atatacatat	tatatatatt
atatatacat	attatatatt
atatataata	tatacatatt
180	
atatattata	tataaatatt
atatatataa	atatttatata
240	
ttatatataa	atatttatata
tcttatatat	aatataata
tataatatat	ataatattta
300	
tatattatat	ataaatatta
tatatattat	ataatattat
atataatata	taaatatata
360	
tatttatataa	atattgtata
tatttatataa	atatttatata
tatttatatat	aatatttata
420	
tatatttatat	aatatatatat
aatatatataa	aatatatataa
aatatatataa	tatgtaaaat
ttatattttat	
480	
aatatatataa	tataaatata
tataaatataa	tataaattat
atataatata	taatatatta
540	
tacataatat	atactatata
ta	
562	

<210> 148
 <211> 801
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(801)
 <223> MAR of chromosome 2 genomic contig; 45727251..45728051

<400> 148	
atatatatat	ataatatata
catatataga	atatatatat
tatttatattc	tatatataga
60	
atatatatat	agaatatata
tatatagaat	atatatatag
aatatatata	tagaatatat
120	
atatagaata	tatatataga
atatatatat	atagaatata
tatatagaat	atatatatat
180	

3024-119-SEQ.ST25

agaatatata tatatagaat atatatatat agaatatata tatatagaat atatatatag	240
aatatatata tagaatatat atatatagaa tatatatata gaatatatat atatagaata	300
tatatataga atatatatat atagaatata tatatagaat atatatatat agaatatata	360
tatagaatat atatatatag aatatatata tagaatatat atatatagaa tatatatata	420
gaatatatat atatagaata tatatataga atatatatat atagaatata tatatagaat	480
atatatatat agaatatata tatagaatat atatatatag aatatatata tagaatatat	540
atatatagaa tatatatata gaatatatat atatagaata tatatataga atatatatat	600
atagaatata tatatagaat atatatatat agtatatata gaatatatat atatatgata	660
tatagaatat atatatatag aatatatata tagaatatat atatatagaa tatatatata	720
gaatatatat atatagaata tatatataga atatatatat atatagaata tatatataga	780
atatatatat atatatagaa t	801

<210> 149
 <211> 346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(346)
 <223> MAR of chromosome 2 genomic contig; 50937238..50937583

<400> 149	
taaaattata tatattatat ataatatata atatattata tataatatat attataaatat	60
atataatata tattatataa aatatattct atagaatata tattctatta tataatatat	120
attctattat aatatatatt atatataata tatatttctat tataatatat attatatata	180
atatatttcta ttatgatata tatttatatat aataacatat attatatata atatatattc	240
tattatataa aatatatatt atataaaata tatatttctat tatataaaat atatattata	300
taaaatatat attatattat ataaaatata tattatacta tatata	346

<210> 150
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(462)
 <223> MAR of chromosome 2 genomic contig; 55672627..55673088

<400> 150	
taaatatata ttatatatta tatttatatat aatatattta tatttatata tactataatt	60

3024-119-SEQ.ST25

tatatataat atatattata tatataatat atttataata tatatcatat aaataatata	120
tatttataat atatatcata taaataatat atattttataa tagatatcat ataaataata	180
tatatattata atagatatca tataaataat atatattttat aatagatatc atataaataa	240
tatatatttta taatagatat catataaata atatatatatt ataatatata tcatataaat	300
aatatatatt tataatatat atcatataaa taatatatat ttataatata tatcatataa	360
ataatatata tttataatag atatcatata aataatatat atttataata gatatcatat	420
aaataatata tattttataat agatatcata taaataatat at	462

<210> 151
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(401)
 <223> MAR of chromosome 2 genomic contig; 56081352..56081752

<400> 151	
tatacatgta tgtattcgta tatgtatggt atatatgtat atgtggtata tacatatata	60
tatatacatg tatatgtggt atatacatat acatatatac atgtatatgt gttatatata	120
tatacatata tacatgtata tgtgttatat acatatatac atatacatgt atatgtgtta	180
tatacatgtg tatgtgtata tgtatatata catatatgtg tatgtgcatg tgtatatata	240
catatatgta tatgtgtata tgtatatata catatatgta tatgtgtatg tgtatacgta	300
tatatacata tatgtgtatg tgtatgtgta tacgtatata tatacatata tgtgtatgtg	360
tatacgta tatacatata tgtgtatgtg tatacgta t	401

<210> 152
 <211> 765
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(765)
 <223> MAR of chromosome 2 genomic contig; 56404208..56404972

<400> 152	
tatattatat aaagaatata tattatataa tatgtaaaga atatatatata tataatatgt	60
aaagaatata tattatatat tatgtaaaga atatatatata tatataatat ataaagaata	120
tatattatat aatatataaa gaatatatat tatatattat ataaagaata tatattatat	180
ataatatata aagaatatat aatatataat atataaagaa tatatattat atataatata	240
taaagaatat atattatata taatatataa agaatatata ttatatatta tataaagaat	300

3024-119-SEQ.ST25

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acatatatat aatatataaa gaatatatat tatatataat atataaagaa tatatattat 360
atataatata taaagaatat atattatata taatatataa agaatatata ttatatataa 420
tatataaaga atatatatta tatataatat ataaagaata tatattatat atattatata 480
aagaatatta tatattatat aaagaatata tattatatat aatatataaa gaataaacat 540
atatactata tataaagaat atacattata tatactatat ataaagaata tacattatat 600
atactatata taaagaatat atataatata taaagaatat acattatata taatatataa 660
agaatatatt atatattata taaagaatac attataatat aaagaatata ttatatataa 720
tataaagaat acattataat atataaagaa tatatataat atata 765

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<210> 153
<211> 443
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_binding
<222> (1)..(443)
<223> MAR of chromosome 2 genomic contig; 61953416..61953858

```

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<400> 153
tttatatatt atagataaaa ttatattata ttacatgtaa tatataatat gtaaaatata 60
ttatattaca tatataatat ataatatgta aaatatatta tattacatat ataatatata 120
atatgtaaaa tatattatat tacatatata atataaaata ttacatatata tatattttac 180
ataaatatat attatctatt acatatttat tatatgtaat aatatgtaca tatgtataaa 240
tatgtatata ttatatacata tgtatatatt atatatacat atatatgtat atattatata 300
tacatatata tgtatatatt atattatata tacatatata tgtatatatt atattatata 360
tacatatata tgtatatatt atattatata tacatatata tgtatatata ttataaatat 420
gtataataaa gatttatatg taa 443

```

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<210> 154
<211> 372
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(372)
<223> MAR of chromosome 2 genomic contig; 62076211..62076582

```

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<400> 154
tatatataat tatatatgta attatatatc agtatatata attatatata attatcaata 60
tatataatta tatataatta tcaatatata taattatcaa tagatatata taattatata 120

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3024-119-SEQ.ST25

tataattata tataattata tatcagtata tataacttata taattatata tatgtatata	180
taattatatg tataaattat ctataagtat atataactat aatatatatac aattatatat	240
acttatgtat aattatatat actgatatat aattatacat aattatatat atcaattata	300
tataattatg tataattata tatacatata tataattata tatataaatt atatgtaatt	360
atataattac ac	372

<210> 155
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(484)
 <223> MAR of chromosome 2 genomic contig; 62158581..62159064

<400> 155	
attatatata atataaaaat tatacatatt attttattat atattatata cataatatat	60
atatttcata tataatatat attatatata atataaaata tatattatgt ataattatat	120
ataaaatata ttatataatt atatataaca taaaatatat ataatatata attatatata	180
atataaaata tatatatata ataaaatata tattatatgt aattatatat aatataaaat	240
atatatatata tataaaaat atattatata taattataat ataaaatata tattatatag	300
tatatattat ataaaatata tattatatat aattatatat tatataaaat atatattata	360
tataattata taatataaaa tatatatgt atataattat atataatata aaatatatat	420
aatatatgaa ataagatata tactatatat aatatatata atttacetat aagatatata	480
tcat	484

<210> 156
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(644)
 <223> MAR of chromosome 2 genomic contig; 68145036..68145679

<400> 156	
tatatatatg ctaatatatg taatatatat tatatatatg ctaatatata tatgctaata	60
tataatatat attatatata aatatataat atatatttat ataaatatat aatatattat	120
atataaatat ataatatata tatatatata atatactata ttatatatta tgtataacat	180
ataatacata ttgtttatat ataatatata tattatatgt tatatatatt atattatata	240
taatataaca atatatttta tatattatat gttatatatt atatattata tataatataa	300

3024-119-SEQ.ST25

cataatatat aatatatatt atattatata ttacatatat tagcaatatt atatataaaa	360
tatatataat atatataaaa tatatataaa aatataaaat atatatcaaa atataaacta	420
tataatatat aaaaatatat tatatataat atataaaaat ataaactata taatatataa	480
aaatatatta tatataatat ataaaaatat attatatatt atatataaaa atatattata	540
tataatatat aaaaatatat ataaaaatata aaaaatatat ataaaaatata aaaaatatat	600
aaaataatat aaaaatatata atatataata atataatata taat	644

<210> 157
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(530)
 <223> MAR of chromosome 2 genomic contig; 71257289..71257818

<400> 157 atatctatta tatttatata ctttatataa attatatcta ttatatattat atactttata	60
taaattatat ctattatatt tatatacttt atataaatta tatctattat atttatatac	120
tttatataaa ttatatctat tatattttata tacttttatat aaattatatc tatttatattt	180
atatacttta tataaatata taattatatt tatatacttt atataaatat aattataaat	240
atatttatat actttatata aatataatta taaatatatt tatatacttt atataaatat	300
aattataaat atattttatat actttatata aatataatta taaatatatt tatatacttt	360
ataattatat gttatattta taattatatt tatataattc ataattatat acattatggt	420
tatagttata taatttataa ttatatacat tatattttata tttatataat ttataattat	480
ataaattata taaattatat aaattatctt taatttatat tatataatct	530

<210> 158
 <211> 337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(337)
 <223> MAR of chromosome 2 genomic contig; 73413615..73413951

<400> 158 acttatatta tatataacta tattattgta tattaatata aattaatgat atataatata	60
ttaattatat attattatat gtgatataaa atacttatat ttatactgta tatatgtata	120
tacacacata tatgtatata tgtatatata cacatatgta tatatgtata tgtatatatg	180

3024-119-SEQ.ST25

tatactgtat atatgtatat acacacatat atgtatatat gtatatgtat atatgtatac	240
tgtatatatg tatatacata tatacatata tgatatatat cacatatatg tgatatataa	300
atatatttat ataaatataa tattaatatt tatatta	337

<210> 159
 <211> 1340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1340)
 <223> MAR of chromosome 2 genomic contig; 77011049..77012388

<400> 159 atgtatttta tatagtatat attatgtatt atattgatat aattatataa caattattta	60
tatataaaat aacaaataaa tatataaaat aataaatata tatttattat taaataataa	120
atatatattt attattaaat aataaatata taaagtaata aatatatatt tatatattaa	180
ataattcata tatattttata tattaataaa ttcatatata tttaaataat taatacatat	240
ttaaataatt aatatatatt tatataatat atattttatat attaaataat taatatatat	300
ttatagatta aattaatata tttttatata tttaaattaaa tttaatatat tatatattta	360
tataatttaa atttaataat ttatataaatt taattttaatt taatataatt aaaatatatt	420
aaacattata taatatataa tatattttaat atataatata tatttaatat ataatatatt	480
taatataata tatattttaat atataatata tatttaatat ataatatatt taatatataa	540
tatattttaat atataatata tatttaatat ataatatatt taatatataa tatatattta	600
atatataata tatttaatat ataatatata tttaatatat aatatattta atatataata	660
tatattttaat gtataatata tttaatatat aatatatatt taatgtataa tatattttaat	720
atataatata tatttgatgt ataatatatt taatatatat ttgatgtata atatatttaa	780
tatataatat atatttgatg tataatatat ttaatataa atatatattt gatgtataat	840
atattttaata tataatatat atttgatgta taatatattt aatatataat atatatttga	900
tgtataatat atttaatata taatatatat ttgatgtata atatatttaa tatataatat	960
atatttgatg tataatatat ttaatataa atatatattt gatgtataat atattttaata	1020
tataatatat atttgatata taatatattt aatatataat atatatttga tatatattta	1080
atatataata tatatttgat atataatata tttaatatat aatatatatt tgatatataa	1140
tatattttaat atataatata tatttgatat ataatatatt taatatataa tatatatttg	1200
atatataata tatttaatat ataatatata tttgatatat aatatattta atatataata	1260
tatatttgat atataatata ttttcttatt aattatttat atataatata taaatatata	1320

ttaattaatt atatattaaa

1340

<210> 160
 <211> 937
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(937)
 <223> MAR of chromosome 2 genomic contig; 78226855..78227791

<400> 160
 tgtgtatata tacatatatg tgtatctatg tgtatatata catatgtgta tatatacata 60
 tatgtgtata tatacatatg tgtatatatg tgtatatatg tgtatatata catatatgtg 120
 tatatatgtg tatatatgtg tatatataca tatatgtgta tatatgtgta tatatacata 180
 tgtgtatata tgtgtatata tacatatatg tgtatatatg tgtatatata catatatgtg 240
 tatatatgtg tatatataca tatatgtgta tatatgtgta tatatgtgta tatatacata 300
 tatgtgtata tatgtgtata tatacatata tgtgtatata tgtgtatata tacatatatg 360
 tgtatatatg tgtatatgtg tgtatatata catatatgtg tatatacaca catatatgtg 420
 tatatatgtg tatatataca tatatgtata tatacatata tgtgtatata tgtgtatata 480
 tacatatatg tgtatatatg tgtatatata catatatgtg tatacataca tatatgtgta 540
 tatatgtgta tatatacata tatgtgtata catacatata tgtgtatata tgtgtatata 600
 tacatatatg tgtatacata catatatgtg tgtatatgtg tatacataca tatatgtgtg 660
 tatatatgtg tatacatatg tgtgtatatg tgtatatata catatatgtg tgtatatatg 720
 tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg 780
 tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg 840
 tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg 900
 tgtatatata catatatgtg tgtatatatg tgtatat 937

<210> 161
 <211> 1350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1350)
 <223> MAR of chromosome 2 genomic contig; 79287748..79289097

<400> 161
 tatatatatt atatatatag taactgttct attatatata tattatatat atttctgttc 60
 tattatatat tatatatatt atattatata ttatatgtaa tatattatat atattataag 120

3024-119-SEQ.ST25

taatatatta	tatatattat	atgtaatata	ttatatatat	tatatgtaat	atattatata	180
tattatatgc	aatatggtat	atatattata	tgcaatatgt	tatatatatt	atatgcaata	240
tattatatat	attatatgca	atatattata	tataatatat	gtaatatatt	atattatata	300
ttatatgtaa	tatcttatat	attatatgta	atatattata	tatattatat	gtaatatctt	360
atatatatta	tatgtaatat	attatatatt	atatgtaata	tattatctta	tatatattat	420
atgtaatata	ttatattata	tattatatgt	aatatatatt	atatgtaata	tattacatat	480
tatatgtaat	atatattata	tgtaatatat	tacatattat	atgtaatata	tattatatgt	540
aatatattac	atattatatg	taatatatta	catattatat	gtaatatatt	atatgtatta	600
tatgtaatat	attatatgta	ttatatgtaa	tatattatat	gtattatatg	tattatatgt	660
aatatattat	atgtattata	tgtaatatat	tatatattat	atgtaattat	attatatgta	720
atatattata	ttatatatta	tatatattat	atgtaatata	ttatattata	tattatatat	780
attatatgta	atatattata	ttatatatta	tatatattat	atgtaatata	ttatattata	840
tattatatat	attatatgta	atatattata	ttatatatta	tatatattat	atgtaatata	900
ttatattata	tattatatat	attatatgta	atatattata	ttatatatta	tatatattat	960
atgtaatata	ttatattata	tattatatat	attatatgta	atatattata	ttatatatta	1020
tatatattat	atgtaatata	ttatattata	tattatatat	attatatgta	atatattata	1080
ttatatatta	tatatattat	atgtaatata	ttatattata	tattatatat	attatatgta	1140
atatattata	ttatatatta	tatatattat	atgtaatata	tttatatta	tatatattat	1200
attatatatt	atatgtaata	tattatatta	tttattatat	attatatatt	atatgtaata	1260
tattatatta	tttattatat	atattatatt	atttattata	tataatatat	tatattatat	1320
atattatatt	atatatattt	ctgttcta				1350

<210> 162
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_difference
 <222> (1)..(332)
 <223> MAR of chromosome 2 genomic contig; 81142998..81143329

<400> 162	
ctatgtatat	aactatatat aactattata taacttaata agatatataa ctattatata 60
acttaataag	ttatatataa ctattatata taacttaata agttatatat aactattata 120
taacttaata	agttatatat aactattata taacttatta agttatatat aactatatat 180
aacttaataa	gttatatata actattatat aacttaataa gttatatata actattatat 240

3024-119-SEQ.ST25

aacttaataa gttatatata actattatat aacttaataa gttatatata actatatata 300
acttatatac aacttattaa gctatatata ta 332

<210> 163
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(327)
<223> MAR of chromosome 2 genomic contig; 84019536..84019862

<400> 163
actgacagta tacatactgt atatatatata agtatgtata catatacagt atgtatacta 60
tatacagtat gtatactgta tatatatata cagtatgtat actgtatatata tatacagtat 120
gtatacgtat gtatactgta tatatgtatt atagtgtata tatgtattat agtgtatatata 180
tgtattatat atattatagt gtatgtatta tatgtgtata tacatataat atattatata 240
tatacatatg cacaatatgt atatgtatta tatgtattca tatacatata tgtatatgta 300
taatatatgt atacatataa tacacat 327

<210> 164
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(407)
<223> MAR of chromosome 2 genomic contig; 1448030..1448436

<400> 164
tatataatat atattacata tatattatat ctatattatt tatattacat atgtaatata 60
tattatattt atattattta tataatatat tatatatatt atattattta tatgtaatat 120
atttatattg tttatatata ttatatttat attatttata tataatacat attatattta 180
tattatttat atataatata tataataaat atataatata tataaaaata tatatattta 240
atatatctat aatatatatt atatatatta tatataatat atataattgt acatatattt 300
attatatata ttatatatat aatatatatt ataaatataa tatataaata tatttataaa 360
tatatataaa tatttatattt atacattata tttatatata tattata 407

<210> 165
<211> 1959
<212> DNA
<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1959)

<223> MAR of chromosome 2 genomic contig; 2117630..2119588

<400> 165

tatacatgtt atagtgtata tagtatacta atatataatg tatgtatgtg tatacatata	60
cacatataat atacacatat ataatatata tagtatataa taatgtataa tatataatat	120
ataatataaa atgtatagta tactacatat ttatatatag tatatagtat gcatagtaca	180
tatatactat atatgtagta tactatagtg tatatatagt acaccatata tagtataaat	240
atactatata gtatatgtac tatatatata ctatatagta tatacagtat acatatatag	300
tataacctata ctatatagta tatatagtggt gcgtatacta tatagtatat atagtgtgcg	360
tatactatat agtatatata gtgtgcggtat actatatagt atatatagtg tgcgtatact	420
atatagtata tatagtgtgc gtatactata tagtatatat agtatacata tatagtgtgc	480
gtatactata tagtatatat agtatacata tatagtatgc gtatactata tatagtatac	540
atatatagta tatctagagt atatgtagta tgtatagtat atatagtcta catactgtat	600
atacagtata tatatactct atagtatact atacagtata gtatactata tagtatacaa	660
tatatgtata ctatagaaac acactatata tagtatacta tatatactat atactatata	720
ctatatatag tatactatat atactacata ctatatatag tgtatgtata gtatatataa	780
actatatata gtgtatatag tatatatatt atatataata tatattatat tatattatac	840
tatatattat atgtatatta tagtatatta tactattata tattatatat tatattatat	900
attatataat ataataat tatatattat aaaatatata tttttatatt atatattttt	960
aaatatttta taatatatat ttataatat atatattata attattttat atataatata	1020
aaatataata aatattttat aatatatatt tttaaaatat aatatttata tattataaaa	1080
atataaatat ataatatatt atatattata tatagtataa tatataatat gttatatagt	1140
atcttatact attatactat atatattata tagtgtatat atagtatact atatatagtg	1200
tatatagtggt atactatagt gtatatagtg tatactatag tgtatatagt gtatactata	1260
tacactgtat atagtatgt atactatata cactgtatat agtagtgtat actatataca	1320
ctgtatatag tagtgtatac tatatacact gtatatagta gtgtatacta tatacactgt	1380
atatagtagt gtatactata tacactgtat atagtatgt atactatata cactgtatat	1440
agtagtgtat actatataca ctgtatatag tagtgtatac tatatacact gtatatagta	1500
gtgtatacta tatacactgt atatatagta tattatatat actatatatg tatatatagt	1560
atacatatat attatatata cagtatatat agtatatata ctatgtagta tatatagtat	1620
atatactata tagtatgtat agtatactat atagtatata tagtatatta tatagtatat	1680

3024-119-SEQ.ST25

atactatata gtatatatag tatattgtat ataatgtata tatactatat agtatatata	1740
gtatattgta tatatagtagt attgtatata tagtatacat agtatgtata tatagtagtat	1800
atagatatata tatatagtagt gtacacagta tatatagtagt atatgtatac tacatatagtagt	1860
atacatgtat actatactac ataatgtata catgtatact atactacata tagtatacat	1920
gtatagtagta ctacatatata tatacatgtata tagaatact	1959

<210> 166
 <211> 520
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(520)
 <223> MAR of chromosome 2 genomic contig; 2119984..2120503

<400> 166	
tatgtatgca tcgtatacat ataatgtata tatatgtatg catcgtatac atatatatacag	60
tatatatagtagt atgcatcgta tacatacagtagt atactatata tacagtagtat acagtagtagt	120
atatatacag tatatacagtagt atactatata tacagtagtat acagtagtagt gtatatatacag	180
tatatatacagtagt atatatagtagt tactatatata acagtagtagt tactatgtat tctatatata	240
gtatagtagtagt catagtagtagt ataatgtata cactataccta tatatagtagt actatatata	300
ctctatatag tatatatagtagt atactatata tagtatatat gtatactata tatagtagtagt	360
atatataccta tatatatagtagt atatatatac tatatatagtagt atatatatac actatatatt	420
gtatagtagtagt gtgtatatata agtagtagtagt atgtatatata acacatgtat acatgtatat	480
atgtataccta atatatataccta atatatgtat aaatatatat	520

<210> 167
 <211> 954
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(954)
 <223> MAR of chromosome 2 genomic contig; 2578285..2579238

<400> 167	
tattatatata aactttataa tatataaatat atattatatata taactttata atatatataa	60
tatattatatata ataactttat aatatataaat atatatatatata tataactttata taatatataa	120
tatatattatat atataactttat ataatatata atatatattata tatataactttata taatatatat	180
aatatatatt atatatataact ttataatatata taatatatatata tatatatataac tttataaatat	240
ataatatata ttatatataa ctttatataa tataatatatat attatatata actttataaat	300

3024-119-SEQ.ST25

atataatata tatttatatat aactttataa tatataatat atatttatata taactttata	360
atatataata tatatttatat actatatata atatataact ttataatata taatatatat	420
tatatactat atataacttt ataatatata atatataatta tatatttatat ataactttat	480
aatatataat atatattata tataacttta taatatataa tgtatattat atatttatata	540
ttatatatta tatataactt tataatatat aatgtatatt atatattata tataacttta	600
taatataata tatataatat aatatataac ttataatat atatatcata tatttatatat	660
aactttataa tatatatcat atatttatata taactataat atatatatca tatatttatat	720
ataactataa tatatatatc atatattata tataacttta taatatatat atcatatatt	780
atatataact ttataatata tatcatatat tatatataac ttataatat atatcatata	840
ttatatataa ctttataata tatatttatat ataactttat aatatatatc atatattata	900
tataacttta taatatatat catatattat atataacttt ataatatata tcat	954

<210> 168
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(452)
 <223> MAR of chromosome 2 genomic contig; 3836217..3836668

<400> 168	
tttatatata aatatatatc ttatatatat ttatatataa tacatatata tcttatatat	60
ataaaatata tatacatatt tatatataaa atacatatgt attatataca tttatatata	120
atacatatgt attatataca attatataat acatatgtat tatatacaat tatataatac	180
atatttataa atatatatat ttatatattat atatattttat atataaataa atatatatatt	240
atagattttat ttatatataat atatattttat ataaatatat atttatatat atttatataa	300
atatatatatt atatatatatt ctatatatat atataaatat atgtataaat atatatatatt	360
atacatatat tcatataaat atatatatatt atacatgtat ttatatgaat atatattttat	420
acatgtaatt atatgaatat atatttatac at	452

<210> 169
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(417)
 <223> MAR of chromosome 2 genomic contig; 3837666..3838082

3024-119-SEQ.ST25

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<400> 169
gatatatata tttatatataa tatatatata aagagatata tttatatatt tatttatata    60
aatatatattc tttatatataa gatatatgta aatatattta tttatatataa tatatttata    120
tatgtaaata tatatttata ttttatata tttatatatt ttttatata aatatatata    180
tttatatatatt tatttatata tataaaaaata tataaatata aatatatata aatatatata    240
attataaata tagaaaataa tataaatata aatatataaa tatatatataa tataaatata    300
tataaatata aatatatata aatataaata tataaatgta taaatatata aatataaata    360
tatataaata tgtataaata tataaatata taaatatata aaaatatata taaatac    417

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<210> 170
<211> 1197
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(1197)
<223> MAR of chromosome 2 genomic contig; 6294846..6296042

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<400> 170
tatatactaa tatgtatata taaatatata aatatatata cacgtgtata tataaatata    60
tatgtatata taaatatata tacatatatg tatataaaaa tatatacgta tatacgatata    120
tacgtatata tagatatata cgtatatatg tatatacgta tatatagata tatacgatata    180
tacgtatata tagatatata cgtatatatg tatatacgta tacatgtgta tatacgatata    240
tacacatata cgtatacatg tgtatatatg tatatgtata cattatatat acgtatatat    300
acatatatgt atacatgtat atataaatat atacatatat gtatatatta tacatatatg    360
tatatatata atatatatta tatataatat atatattata tataatatat atattatata    420
taatatatat attatatata atatattata tattatatat aatatatata tatataatat    480
attatatatg tacatatgta cataatgtat atatgtatat atataatata tatgcacatg    540
tatatatata atagtatat tatatatata tatgtatata tgtacatatt atatatgtat    600
atatgtacct attatatata catatgtata tatgtacctt ttatatatac atagtatatat    660
atgtacatat tatatatata tatgtatata tgtacatatt atatatatat atgtatatat    720
gtgcatgcat atataaatata taatatatta tagattataa tattatatac atatcatata    780
ttatatactt atatatatat gtatatatta tatacatatt atatattata tacatatata    840
atatgtatat aatatatata tatattatat attatatata atacattatg ttatatatta    900
tggtatataa tatatatatt ataatatata tatattatat ataatatata catatatata    960
aaataatata taattatata tataatatat gcatataaat atgtaatatata ttttatatta    1020

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3024-119-SEQ.ST25

tatatgatca tatataatat gacatattat atatgattat atatatgata tattatatat	1080
gattatatat attatatata aatatatgat tatatataat catatatata aatatatgat	1140
tatatgatta tatataaata tatatatatg attatatgat tatatataat tgattat	1197

<210> 171
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(362)
 <223> MAR of chromosome 2 genomic contig; 6506971..6507332

<400> 171	
tatatatagt gtatactata tatacgctat atgcacacat aaactatata tacagtatat	60
aatatgcgta tactatatac acagtatata ctacatgtat actatatata gtatataaga	120
tataactat gtatataata tataactag gtatatatat ccatatatat actatatact	180
atagtatata catatatatg tacgtatata tgtatatgta catatatatg tagtatgtat	240
atatatacat atatacacac tatagtatat acatatatat actatatata ccctatatag	300
agtatattat atacagtata ctatatatac tatatatacc ctatatagag catgtctatg	360
ct	362

<210> 172
 <211> 2578
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(2578)
 <223> MAR of chromosome 2 genomic contig; 6507395..6509972

<400> 172	
ggtatactat atatactata gagtatactt tatagtatat atacctatat tatatatata	60
tacatacact gtatagtata tatggtatat atactatata tggcatatat agttttatata	120
tatactatat atggtatata tagttttatat atatactata tatggtatat atagttttata	180
tataccatat atggtatata tagttttatat agtacatata gtatatatac aactgtata	240
gtatatatta ttagtatatat atactatata tactgtatat atagtataaa tactatatat	300
agtatacact atatactata cactatatat actatatact atatactata tatagtatac	360
tatatagtat atagtatact ctatatgtac tatagagtat actatatata ctatacataa	420
aatatTTTTa tatatagtagc agcgtagact atatactata tatagtagtac tctatatgta	480
ctatagagtg tagtatatac tatacagtat actctatata tactatacag tacactatat	540

3024-119-SEQ.ST25

atactatata	tagtatat	tttatatag	tacagtatata	cagtatatat	attatactat	600
atgtagtaca	tatatagttt	agtatatata	gtatatatac	tatactatat	gtactacata	660
tataatagta	tatatagtat	atatactata	ctatatgtag	tacatatata	gttttagtata	720
tatactagta	tatagatata	tagttatata	gatatataat	agtatatata	gtatatatag	780
catatatagt	atatatgcta	tatatactat	atagcatata	ctatatacta	tatatacagt	840
atatatagca	tatatagcat	atataatata	tatacttttg	atatacatac	tatatacagt	900
atatatagta	tatatactgt	ataaatatac	tatatatacc	gtatatgcac	actatatgct	960
atatatacta	tatacactat	atacagtata	tatagtacac	tatactatat	aaagtatata	1020
tagtatacag	tacactatac	tatatacatt	atatatagta	tatattatac	atagtatata	1080
gtatataaat	agtatatata	gtatatacag	tatatatata	gcatacttta	tatagtatac	1140
acagtatata	gatactatat	atgctatata	tagtatctat	atactgtata	ttatatatac	1200
taatatagta	tatatgtata	tatatactgt	atatataata	tatacatata	tagtatatat	1260
actatacata	cacactatac	atatgtatat	atactataca	tactatatac	tatatatcct	1320
atatatacta	tatagtatat	tatatatcct	atatatacta	tatagtatat	tatatatcct	1380
atatatacta	tatagtatat	tatatatact	atataccata	tatactatat	atactgtata	1440
gtatactata	tatactatat	agtatactgt	atatactata	tagtatactg	tatatactat	1500
atagtatact	gtatatacta	tatagtatac	tgtatatact	atatagtata	ctgtatatac	1560
tatatagtat	actgtatata	ctatatatac	tatatagtat	actgtatata	ctatatagta	1620
tactatatat	actatatacc	atatatacta	tgtatatact	atatatagta	tatactatgt	1680
atatgctata	tatagtatat	atagtatata	tgctatatat	agtatatata	gtatatatgc	1740
tatatataca	gtctatatat	agtatatata	ctatatagac	tatatatata	gcatatatac	1800
tatatatact	atatataata	tatatgggtat	atacatagta	tctatatgta	gtatctatat	1860
atagtaccta	tatatactat	atataggtac	tatatatagt	atatatactt	tatatagata	1920
ctatatatag	tatatatact	ttatatagta	tatatagtat	atgtagcata	tatagtatat	1980
atagtatata	tagtatatag	tatgtatagt	atatatagat	tatattgtat	atacagtata	2040
tatactgtat	atactatata	aatagtacat	acagtatata	cagtatatat	gtactatata	2100
tagtatatac	agtatatata	gtatatatgt	accatatata	gtatatacag	tatatacagt	2160
atatatgcac	tatatgttat	atacagtata	tacagtatat	atgtactata	taaatagaat	2220
atactctata	tacagtatat	atgtactata	taaatatata	cactatgtac	agtatatatg	2280
tactatataa	atagtatata	cactatatac	agtatatatg	tactatatag	tgtatacagt	2340
atatacagta	tatagggtact	atatatggta	tatacagtat	atatgcacta	tatgggtatat	2400

3024-119-SEQ.ST25

acagtatata	tgcaactatat	atgggtatata	cagtatatat	gtactatata	tggtatatac	2460
agtatatatg	tactatatat	ggtatataca	gtatatatgt	actatatatg	gtatatacag	2520
tttatacagt	atatatgcac	tatatatggt	atatacagta	tacatgtact	atatatgg	2578

<210> 173
 <211> 598
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(598)
 <223> MAR of chromosome 2 genomic contig; 7770400..7770997

<400> 173	
gtgtattgta	tatacatata
cgtatctacg	tatatacata
tatgtattgt	atatacatat
	60
atgtattgta	tatacatata
tgtatatacg	tatatacata
tatgtattgt	atatacatat
	120
atgtatatac	gtatatacat
atatgtatat	acgtatatag
atatacatat	atatgtattg
	180
tatatacata	tatgtatata
catatataca	tatatattga
tatacatata	tatgtattgt
	240
atatacatat	acaatatatg
tatatataca	tatacatata
caatatatgt	atatacatat
	300
atatgtattg	tatatacata
tatatgtatt	gtatatacat
atattgatat	acatatatgt
	360
atatatacat	atatgcatat
atgtatatat	acatatatgc
atatatgtat	atatacatat
	420
atacatatgt	acatatatac
atatatacat	atatgtatat
atacatatat	acatatgtac
	480
atatatacat	atatacatat
gtacatatat	acatatatac
atatgtacat	atatacatat
	540
atagatatat	atacacatat
atagatatatac	ttatatgtat
atatacatatac	atacatat
	598

<210> 174
 <211> 1048
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1048)
 <223> MAR of chromosome 2 genomic contig; 8332422..8333469

<400> 174	
cattatatat	aatatataat
atattattat	atataatata
tataacatta	tatatagtat
	60
atatgacata	tataacatat
attatatata	acatatataa
aatataacat	attatatata
	120
acatatataa	aatataacat
atattatata	taacatatat
aaaatataac	atatattata
	180
tataacatgt	ataaaatata
acatatatta	tatataacat
gtataaaaata	taacatatat
	240
tatataacat	gtataaacta
taacatatat	tatatataaa
atatattata	tgttatatat
	300
tataaataaa	atatattata
tgttatatat	tataacatat
tatataaata	atatataata
	360

3024-119-SEQ.ST25

tataacatat attatataaa taatatataa catatattat ataaataata tataacataa	420
catatattat ataacatata acatataaca tatatttatat ataacatata acatataaca	480
tatatttatat ataacatata acatataaca tatatttatat ataacatata acatatatta	540
tatttatatat aacatataac atatattata ttatatataa catataacat atatttatatt	600
atatataaca tataacatat attatattat atataacata taacatatat tatatttatat	660
ataatatata acatatatat tatatataat atataacata taacatatat tatatataat	720
ataatatata acatatatta tatataatat aatatataac atatattata tataatataa	780
tatataacat atatttatata taatatataa tataacatat attatatata atataatata	840
taacatatat tatatataat ataatatata acatatatta tatataatat aatatataac	900
atatattata tataatataa tatataacat atataatata taacatatag catatataat	960
atataacata taacatatat tatatataac atataacata tatttatatat aacatataac	1020
atatataata tgtaacatta tatataac	1048

<210> 175
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(375)
 <223> MAR of chromosome 2 genomic contig; 8909678..8910052

<400> 175	
tatatacaca tatatacgta tgaatatata tacacatata cgtatgaata tatataccca	60
tatacgtatg aatatacaca tatatatacg tacgtatata tatacacata tatacgtacg	120
tatatatata cacatatata cgtacgtata tatatacaca tatatacgta cgaatatata	180
tacacatata tacgtacgaa tatatataca catatatacg tacgaatata tatacacata	240
tatacgtacg aatatatata cacatatata cgtacgaata tatatacaca tatatacgta	300
cgaatatata tacacatata tacgtacgaa tatatataca catatatacg tacgaatata	360
tatacacata tatac	375

<210> 176
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(563)
 <223> MAR of chromosome 2 genomic contig; 10572503..10573065

3024-119-SEQ.ST25

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<400> 176
atttataata tatatgtata aatatatgta tatatttata tttaaatata tgtatatata    60
tttatattta aatatacgta tatatattta tatttaaata tacgtgtata tatttatatt    120
taaataacg  tgtatatatt tatattttaa tatacgtgta tatatttata tttaaatata    180
cgtgtatata tttatattta aatatacgta tatatattta tatttaaata tacgtgtata    240
tatttatatt taaataacg  tgtatatatt tatattttaa tatacgtgta tatttatatt    300
taaataacg  tgtatattta tatttaaata tatgtatgta tttataaata tatattttaa    360
gtatatattt ataaatgtat acatgtatat ataaatatat atatttttaa tatatattta    420
tatatatatt tatatattta tataagtata tatatattta aatatatgta tatatttata    480
tatttatata agtatatata tttaaatata tgtatatatt tataatatat attttaaata    540
tatatttata tatttattat ata                                           563

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<210> 177
<211> 595
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(595)
<223> MAR of chromosome 2 genomic contig; 11609694..11610288

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<400> 177
tataaatact atatatagta tatataatat tatataact atatataaat atatgtagta    60
taaataatat ataatataga tatataatat aatataatat gttataaata taaatatatt    120
tatataattt aatttataat atataatata taatatataa ttttaatttta taatatataa    180
tatataattt aattttataa tatataatat ataatatgta aatttatatat aatttaatat    240
atctaaatta tataatttaa atataaatat aatataaata tatctaacaat aatatacata    300
acataaatat atatagtata tatagtacat ataaatatat atagtacata tagtatatat    360
aaatatatag tatatataaa tatagtatat ataaatatat agtatatata tagtatatat    420
aaatatatag tatatataaa tatatatagt atatataaat aatatatagt atataaataa    480
tatatattat taaatataat aataatttat tatataact atatattatt atgtattata    540
ttatatatat tattttatat ttaatatata ttattttata tatttatattt aatat      595

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<210> 178
<211> 662
<212> DNA
<213> Homo sapiens

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<220>

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3024-119-SEQ.ST25

<221> misc_binding

<222> (1)..(662)

<223> MAR of chromosome 2 genomic contig; 12699804..12700465

<400> 178

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gtatatatat atatatatat atggtgtata tatatatata tatatatggt gtatatatat      60
atatatatatat atggtgtata tatatatata tgggtgtatat atatatatgc tgtatatata      120
tatggtatat atatatggta tatatatatt tgctatatat atagcagatc tgctatatat      180
atatatttgc tatatatata gcagatctgc tatatatatt tgctatatat atgctatata      240
tatgctacat atatgctata tatatgctat atatatgcta tatatatgct atatatatgc      300
tatatatatg ctacatatat gctatatata tgctacatat atgctatata tatgctatat      360
atatatgcta tatatatgct atatatatat gctatatata tgctatatat atatgctata      420
tatatgctat atatatatgc tatatatatg ctatatatat gctatatata tagcatatat      480
atatagctat atatatgcta tatatatagc ttatatatat gctatatatg ctatatatat      540
gctatatata tagctatata tatgctatat atagctatat atatgctaca tatatgctat      600
atatatgcca tatgtatgct atatatatgc tatatatata tgctatatat atgctatata      660
ta                                                                                   662

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<210> 179

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(649)

<223> MAR of chromosome 2 genomic contig; 12821904..12822552

<400> 179

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tatgtaatat tatatatata aattatatat tatacatatg taatattata tatatatataa      60
ttatatatta tacatatgta atattatata tatataaatt atatattata catatgtaat      120
attatatata tataaattat atattatata tatgtaatat tatatatata taaattatat      180
attatacata tgtattatat atataaatta tatattatac atatataata tatatatataa      240
ttatatatta tacatgtata atatatataa attatatatt atacatatat aatatatata      300
aattatatat tatacatata taatatatat aaattatata ttatacatat ataatatata      360
taaattatat attatacata tataatatat ataaattata tattatacat atataatata      420
tataaattat atattatata tatataatat atataaatta tatattatac atatataata      480
tatataaatt atatattata catatataat atatataaat tatatattat acatatataa      540
tatatatataa ttatatatta tacatatata atatatataa attatatatt atacatatat      600
aatatatata aattatatat tatacatata taatatatat aaattatat                       649

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3024-119-SEQ.ST25

<210> 180
 <211> 3191
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(3191)
 <223> MAR of chromosome 2 genomic contig; 15356889..15360079

<400> 180
 tacaattata tataactata aatataatat aatatatatt atctatatta catattaata 60
 tataatatat attacctatt aatatataat ataatatata taatatatat tacctattaa 120
 tatataatat aatatatata atatatatta cctattaata tataataaaa tatatataat 180
 atatattaca tattattata taatatatat tatataacat atataacata tactatatat 240
 tatataacat atataattgt atagtatta tatatattat atatacttat acataatata 300
 taaataatta aatatatggt ataaatataa caaatatata acatatataa catatataac 360
 atatatataa ttacataaaa tatataatac ataatatata ttatgcaaca tattatataa 420
 tatataacat ataattgata ttatattata tcatatataa tacataatat ataatatatg 480
 atataatata atatattata tatgatataa tataatatat tatatatggt ataatatat 540
 atatattata tataggatat attataacat attacatatg atataataaa ttttatctta 600
 tatataggat atattataat ataccacata tagcatatat taaaatatat tacatatagt 660
 atattatata tactatatgt atatatacat atagtatatt atagtatatt atacagtata 720
 tattatatat actatatata gtagtatata gtatatatta tatatactat atatagtagt 780
 atacagtata tattatacag tatatattat atacactata ttatatatta tgtataatat 840
 atactatata tagtatatta tgtagtatat attaaacata atagatatat agtatatact 900
 atagataata gatattatat agtatatagt atatattata tataatatat ataatatata 960
 ttatatatat atatgatata tgatatatta tatataatat atataatat taatatatgt 1020
 aatataatac atattatata taatatatgt aatataatat aatatataat atattgtaata 1080
 taataatatata tattatataa tataacatat ataaatataa taatatatat tatatgatat 1140
 aacatacata aatataataa catatataat atatattata tattatattg tatatatgat 1200
 atactatata ttacacatta tacattatct ataatatata attaatatat aacatatatt 1260
 agataacata taattatatc tgtaacatat ataagatata attacatata taacatatat 1320
 aattatatat atatttatct aattatatat gaaattatat atgacatata aaattatata 1380
 ttatatatgt tatatgtatt atatattata tatgttatat atgttatata taacatatat 1440
 aacatatata acacacacat ataacatata taacatatat tacatatata acatatataa 1500

3024-119-SEQ.ST25

cacatatata attatctaac atagataata tatataatat ataataataac atatatatta	1560
tatattatac actctattat attatatata ttatacataa tatataatat atatgatata	1620
atataataca ttgtatatac gatataatat atattgtaca tagtataata tacatatata	1680
gtatattatg tataacataa tatatagtat attatgtata acataatata tagtatatta	1740
tgtataacat aatatatagt atattatgta taacataata tatagtatat tatgtataac	1800
ataatatata gtatattatg tataacataa tatatagtat attatgtata acataatata	1860
tagtatatta tgtataacat aatatatagt atattatgta taacataata tatagtatat	1920
tatgtataac ataatatata gtatattatg tataacataa tatatagtat attatgtata	1980
tataatatac atattatata gtatattatg tatatataat atacatatta tatagtatat	2040
tatgtatata taatatacat attatatagt atattatgta tatataatat acatattata	2100
tagtatatta tgtatatata atatacatat tatatagtat attatgtata tataatatac	2160
atattatata gtatattatg tatatataat atacatatta tatagtatat tatgtatata	2220
taatatacat attatatagt atattatgta tatataatat acatattata tagtatatta	2280
tgtatatata atatacatat tatatagtat attatgtata tataatatac atattatata	2340
gtatattatg tatatataat atacatgta tgtagtatat tatgtatata taatatacat	2400
gttatgtagt atattatgta tatataatat acatggtatg tagtatatta tgtatatata	2460
atatatataa ggtgtatata tattatgtat atataatata taaggatatat atattatgta	2520
tatataatat atataaggtg tttatataat gtatatataa tatataaggt atgtatatta	2580
tgtatatata atagtatat tatatataat atatattatt tatatacatt atgtatctat	2640
ataatatata ttatgtatat attaggtatc tatataatat atattatgta tatatattat	2700
gtatctatat aatatatata ttatgtatat atattatgta tctatataat atatatatta	2760
tatgtatatt atgtatctat ataatatata taatgtatat agatatatta tatattatgt	2820
atatatatta tgtatctatt ttatatataa tgtatataga tatacaatat atattatgta	2880
tatattatgt atctatataa tatatattat ttatatagat atatatatta tgtatatata	2940
cataatatat tacatattat gtatatatac ataatatata atatattatg tatatatata	3000
taatataata tatattatat attacatata ttatatataa tatattatat tatgtatata	3060
tattatgtat atataatgta tatataatat ataaagtgta tatatattgt gtatatataa	3120
tgtatatata ttacatatat tatgtgtata tatattatac ataatatata tactacatta	3180
tacataatat g	3191

<210> 181
 <211> 314
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(314)

<223> MAR of chromosome 2 genomic contig; 728676..728989

<400> 181

tgtgtatata tgtatatata atatatatta tataatatgc atatgtataa aatatgtata 60

ttatatatgt atattttata tatatgtata tattatatgt atattttata tatgtatatt 120

ttatatatat gtatatatta tatatgtata ttttatatat atgtatatat tatatgtata 180

ttttatatat atgtatatat tatatatgta tttttatat atatgtatat attatatatg 240

tatattttat atatatgtat attttatata tatgtatatc atatatatgt atatattata 300

tatatgtata tctt 314

<210> 182

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(423)

<223> MAR of chromosome 2 genomic contig; 737493..737915

<400> 182

ataatatata gtgtctttta tattatctaa tatgtaatat aatgtatttt atattatgta 60

ttttatatta tataatatat aatataatgt attttatatt atatgtttata taatatatag 120

tgcattatat attatgttat attatatata ttttatttat ataaattata tattatatgt 180

tattttatat atattatata acatataata taacaatgca ttatatatta taaaatatat 240

aatacattac atatattata taatatataa tacattacat atattatata atatataata 300

cattatcata tattacaaat attacattag tataatagta attataatat aatatattat 360

atattacata tattatatta atgtaatagt aattataata taatatatat tatattttat 420

att 423

<210> 183

<211> 724

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(724)

<223> MAR of chromosome 2 genomic contig; 1069556..1070279

<400> 183

3024-119-SEQ.ST25

tattataata tattatatac atttatattgt atatatacta tatatgggtat atatagtata	60
cataatataa aatgtatatatt gtaatatata ttatatatat acatagtgtta cattatataa	120
tataatataa tgtatattat aatatacatt ataatatata agtgtactat gtatatagta	180
tatataatgt atattataat gtattatata gtataatata atataatata cattatatag	240
tattgcatta tatatgctat ataatatata atatattatg tatatatata ttatatatac	300
tatattatat agtacatata atgtatatta tatagtatat ataatatata acattatata	360
tacaatatat aatgtatatatt atatagtatg tataatgtaa tacattatac atagtacata	420
aagtatatta taatatatta taatatataa tatacattat atattataat gtatataata	480
tattgtatat atactatata taatgtatat acaattatat ataattgtat atatacatgt	540
atatgtatat gtatatatac atgtatatgt atgtgtatat atacatatat gtatatgtat	600
gtgtatatat gtatatgtat atatgtatat gtatacgtat atatgtatat acaatgtata	660
tataatgtat ataaaaatat ataatatata caatatgtat ataatgtata taattatata	720
atat	724

<210> 184
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(383)
 <223> MAR of chromosome 2 genomic contig; 2719918..2720300

<400> 184	
atatttatat tttatatatt atttatatat aaatatatat ttatatattta tatattattt	60
atatataaat atatatttat attttatata ttatttatat ataaatatat atttatattt	120
tatatattat ttatatataa atatatatatt atattttata tattatttat atataaatat	180
atatttatat tttatatatt atttatatat aaatatatat ttatatattta tatattattt	240
atatataaat atatatttat attttatata ttatatattt atatattata tatattttata	300
ttaatttgtg tataatatat attattaaat ataataaata tattttattt tatatattat	360
ataaaaaatat ataatatata aaa	383

<210> 185
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(309)

<223> MAR of chromosome 2 genomic contig; 4994249..4994557

<400> 185
 tataatatat aattgttata acattataac aattatatat tatatataat acaattatat 60
 aatatatatt atataattgt aatatataat ataattatat aatatatatt atataatata 120
 atatataata tatcatatat gttatatatt ttattatata atatataatta tatataatat 180
 tatatataat atatattata tataatatta tatataatat atattatata taatatatatt 240
 atatataatta tatataatat atattatata ttaaatatta tatatataat atatataaca 300
 ttattgtta 309

<210> 186
 <211> 740
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(740)
 <223> MAR of chromosome 2 genomic contig; 5034916..5035655

<400> 186
 tttatatata aaatattata tataatatta tatataatat tttctatata aaatgtgtat 60
 ataattatat ataattatat aaaatataat atagaatatac taataatgta taatatataa 120
 catataaaaa taatattatt taatatataa ttttttatat ataattttt tatatataat 180
 ataatatata ttttatatat aattattaat tatataatta atatataata tatattttat 240
 acataattat taattatata taattaatat ataatatatac ttatacataa ttatcaatta 300
 tatataatta atatataata tatattttat acataattat taattatata taattaatat 360
 ataatatatac ttatacataa tatatatataa tatattatat ataatatata ttatatataa 420
 tattatatat aatatatatt atatataata aatttatata taatattata tataatatta 480
 tatattttat atacaatatg atatataata taatttatat attatatata tttatatata 540
 attattatat aaattatata aatataaatt atatatttat atataattat tatataaatc 600
 attatataat tattataaatt ataatatata atataatata atattatata taatatatag 660
 tattctatat aaataatata acatatattt tatatagaat attatatata atataatata 720
 ttttttatat agaattattat 740

<210> 187
 <211> 847
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(847)

<223> MAR of chromosome 2 genomic contig; 6074678..6075524

<400> 187

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aatatagaca taaatatata tgcataaata tatatatgca taaatatata taaaaatata    60
tataaatata tacataaata tatataaata tatacaaaaa tatatatataa tatataaaaa    120
aatatataaa tatatatata catatatata tatatatata tacatatata aacatatata    180
cataaatata tatgtataaa tatatatata cataaatata tgtatgaata tatatacata    240
aatatatatg tataaatata tatacataaa tatataaaga tatatacata aatatatata    300
aatatatata cataaatata tataaatata tataaataga tatataaata tatatatataa    360
tatataaata tatatatataa tatataaata tataaaaaata gatatatataa tatatatata    420
aatatatataa tatatatata aatatatata aatatataaa tatatatata aatatatata    480
aatatatataa tatatatataa tatataaata tatatatataa tatatatataa tatataaata    540
tatataaata tatataaata tataaatata tatataaata tatataaata tataaatata    600
tatataaata tataaatata taaatatata tataaatata taaatatata taaatatata    660
taaatatata aatatatata aatatatata aatatataaa tatatatataa tatatatataa    720
tatatatataa tatataaata tatataaata tatataaata tatataaata tatataaata    780
tataaatata tatataaata taaatatata taaatatata aatatatata taaatatata    840
taaatat                                         847

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<210> 188

<211> 784

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(784)

<223> MAR of chromosome 2 genomic contig; 6108986..6109769

<400> 188

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atttatttat atattttaata tataaaatat atattttaata tataaaatgt atatatatac    60
atatattata tataatacaa tatatattat atataatata tattatatat aatattatat    120
attatattat aatataatat atattatata taatataata tatattatat attattatat    180
ataatataat atatattata tattattata tataatataa tatatattat atattattat    240
atataatata atatatatata tatattatta tatataatat aatatatatt atatatatat    300
tttatatata taatatataa tatatatatt atatatatat tttatatata taatatataa    360
tatatatatt atatatatat tttatatata taatatataa tatatatatt atatatatat    420
tttatatgta taatatataa tatatatatt atatatatat tatatatata taatatgtaa    480

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3024-119-SEQ.ST25

tatatatatt atatatatat tatatatata atatatatata tacataaaaat atatattata	540
tataatatat ataatatata ttatatataa aatatatttt atgtataata tatatttatat	600
ataatatata atgtatatatt atatataaaa tatatatatta tataacaatgt atattttatat	660
ataaaatata tattttatata caatgtatat ttatatataa atgtgttttaa tatatgaaat	720
atatattttat atataatat tatttaaatct ataaaatata tattaatatat atattttatat	780
ttaa	784

<210> 189
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(381)
 <223> MAR of chromosome 2 genomic contig; 10389032..10389412

<400> 189	
tatacacata tagagtatat agagtatata tagagtatat ctatagagta tatatgtata	60
tagagtatat aatacagcct accatatata tagtatacat atatatatat tctatatat	120
atatatatag tgtgtatata tatagtatag accctaccat atatatatat aggagtatat	180
atatatacac actcctacta tatatagtat gtatatagag agtatataga gtatatatac	240
agtatatata cacagtatat atatgccata tatagtatct atatacttat atatagtatg	300
tatctatata cttatatata gtatgtatct atatactata tatagtatgt atctatatat	360
tatatagagt atatatgtat a	381

<210> 190
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_difference
 <222> (1)..(507)
 <223> MAR of chromosome 2 genomic contig; 11097807..11098313

<400> 190	
aattatatat aatttattat atataatttt atattttataa tattttttata tacatatttt	60
atatatcttt ataattatat attacatata taatattata taatatatat aatatatata	120
atatatatta tatatttatat aatatatatt atatatatta tatataatat atataatat	180
tataatatat ataatatata taatatataa tatatatatt ataatatata ttatatataa	240
tatatattat atataatat tatttatatat aatatataat atatataata tatataacat	300
ataataatat attatacata atttatatat aattttttata taattatata tattttatata	360

3024-119-SEQ.ST25

tttttatata attatatata tttatatatt tttatataat tatatatatt tatatatattt	420
tatataatta tatatataat ttttatataa atatatataa ttttatataa ttttatataa	480
ttataaaata tataattata tataatt	507

<210> 191
 <211> 329
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(329)
 <223> MAR of chromosome 2 genomic contig; 11234628..11234956

<400> 191 ttatagttaa atatatataat ataaaatata cagttttata cagtatatat aaaatataca	60
atatataata cataatacat tagttatata tactatatat actatatata ctacacgtat	120
agtatatata tgaaactata tatatactat acgtgtagta tatatatgaa actatatata	180
tactatacgt gtagtatata tatgaaacta tatactatac gtatagtata tatatgaaac	240
tatatatact atatatactt aactataatt gtatatagtt aaaaatataa atataaaata	300
tacagttaaa tatattaata tataatagt	329

<210> 192
 <211> 584
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(584)
 <223> MAR of chromosome 2 genomic contig; 797844..798427

<400> 192 tattatttta tgttataaat agataaaaat atatacta atatatgtac ttatatatac	60
atcaatatat aatgtattat ttatatactaa cgtatattat atatactagt atataatcta	120
tattatttta tatgttataa atatatataa aaatatataa atattttatg catatattaa	180
tatataatat atactaacat gctaatttat atatacttat atataattta tatagtatat	240
aatatataaa tgtatataat acataattta tatatttata tattaatagt ttatatatta	300
gtatatatac taattttata tactaataaa taaatttat atatatataa ttatatatta	360
tagtacataa tatatattat atagttaa atactatgtaa ctataatata taactatata	420
tgatatacag ttatatataa tataaatttt acatacagta tataaattat atactatata	480
tttatataca tatgggtatat aaatttatata ctatacattt atatacatat ggtatataaa	540

3024-119-SEQ.ST25
 ttgtatacta tataatgtgt attagtatat atactaatat atac 584

<210> 193
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(363)
 <223> MAR of chromosome 2 genomic contig; 1093824..1094186

<400> 193
 tatacacaca catatatata cacatatata tacacatata tatatacaca tatatatata 60
 catatatata cacgtatata tgtatacaca tatatatgta tatatatata catatatata 120
 cacatatata cgtgtatata cgtatatatcg tacatatata cgtgtatata cgtatatgcg 180
 tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg 240
 tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg 300
 tacatatata cgtgtatata cgtatatgcg tacatatata cgtgtatata cgtatatgcg 360
 tac 363

<210> 194
 <211> 545
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(545)
 <223> MAR of chromosome 2 genomic contig; 3456187..3456731

<400> 194
 tattataata tatatttata tattataata tatatttatat tatatattta tatattataa 60
 tatatattat attatatatt tatatattat aatatatatt atattataat atatatttat 120
 attataatat attatattat aatatatatt atattattat atattataat ataatatata 180
 ttataaatata tattatatta taatttatat attatatata ttataaatata tattatatta 240
 tatatatatt tatattataa tatatattat tatatattat atattataat ttatattata 300
 ttacaatata tattataaat atatatatta tattataaat atatattttt atattacaat 360
 atatattata aatatatatt ttatattaca atatatatta taaatatata tattatatta 420
 caatatatat tataaatata tattatatta caatatatat tatattataa tatatattta 480
 tatatgatat attatattta atatattata taacataata tataatatat aatatattaa 540
 tataa 545

3024-119-SEQ.ST25

<210> 195
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(356)
<223> MAR of chromosome 2 genomic contig; 5001567..5001922

<400> 195
tataaaatat atgttatata tataatatat attatataat atataatata tataatatat 60
aaaatatata aaatatataa tatataatat aatatataat atatataata tataaaatat 120
atataatata aaatatatat aatatataat atatataata tataatacat ataatatata 180
atatataata tataatatat ataatatata atatataata tataatatat ataatatata 240
atatataata tatataatat ataatatata atatataata tataaatata taaatatata 300
tacacacata cacacacata tatgcatata tatacatata catgtgtaca tagata 356

<210> 196
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(321)
<223> MAR of chromosome 2 genomic contig; 5457330..5457650

<400> 196
tatacaatat attataaatt atatataatt tatatataat atatattata tataaattat 60
atataattta tataatatat aaattatata taatatataat tatatataat ttatataata 120
tataaattat atattatata aattaaatat aatttatatt atatataaat tatatttaatt 180
ttatataata tataaattat atttaattta tatataatat aaatttatatt tttatatatt 240
atgtataatt tatatattta tacatatata cattataata tattgtatag tatatataat 300
atatagtata tataaagcat a 321

<210> 197
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(361)
<223> MAR of chromosome 2 genomic contig; 8124469..8124829

<400> 197
tatatataat atatattata tatattatat aaattatata taatatgtaa tataaatttt 60

3024-119-SEQ.ST25

gtaatatataa ttatatatat aaattatata taatatatat taatatatat aatataaatt	120
aatatatata atatataaatt atatataaatt tatatgatat atataaatat atattatata	180
taaattatat atatacataa ttatatatca tataaattat atataatata cattatgtac	240
ataatatatg atatataata tataatatat attatatata attatatata tataattata	300
taatatatat aaattataat atataatata tataaattat aatatataat atatataaat	360
t	361

<210> 198
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(418)
 <223> MAR of chromosome 2 genomic contig; 11151485..11151902

<400> 198	
atgtaactat atatatagta tatatagtat atatatacta tatagtgtgt atatatagta	60
tatatatact atatagtgtg tatatatagt atatatatag tgtatatatc gtatatacac	120
tatatactat atagtgtata tatagtatat gtagtatata tagtatatat agtatagtat	180
atatagtata tatagtgtat atatactgta tatatagtgt acatagtata ctatatagta	240
tacatatagt aactgtata gtatatatag tatagtatat atagtataca tagtatacta	300
tatatagtat agtatacata gtatactata tagtatatag agtatatata cagtatacta	360
tatagtatat agagtatata tacagtatac tatatcgtgt gtatagagta tatataca	418

<210> 199
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(394)
 <223> MAR of chromosome 2 genomic contig; 13591477..13591870

<400> 199	
ttatatatat tttatatata ttatatatat tttatatata ttatatatat attatatata	60
tattatatat aattatatat aatatatatt atatataatta tatataatta tatataatat	120
atattatata tattatatat ataatatata tataatatat atattttata tatgtattat	180
atatatttta tatatattat atatattata tatatatattt atatataatta tattttatat	240
atataatata acatatataa tatataatta tatattatat atatattata ttatatataa	300

3024-119-SEQ.ST25

tatatattat atataatata atatataatt atatataatta tatatatttat atattttatat	360
aaaaattatt ttatattatt ttatatataa atat	394

<210> 200
 <211> 1194
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1194)
 <223> MAR of chromosome 2 genomic contig; 14996824..14998017

<400> 200	
taatatttat atatacatat aaaatttata tataatatat aatatttata tatacatata	60
aaatttatat atatataata tatttatata tacatataaa atttatatat aatatataat	120
atttatatat acatataaaa tttatatata atatataata tttatatata catataaaat	180
ttatatataa taaatattta tatatacata taaaatttat atataattta tatataacat	240
ataatattta tatataaaat ttatatataa catatattta tatataattt atatataaca	300
tataatattt atatataata tatattttatt tatacaattt atatataata tataatactt	360
atatatacat acataattta tatgatatat atttatata taatttatat gatataaat	420
atatctaata tatatttatat atatttatata tatttatatat aatttatata atatatatta	480
tatatataat ttatataata tatatattat atatataatt tatataatat atatattata	540
tatataattt atataatata tatttatatat ataatttata taatatatat tatatatata	600
atttatataa tatatattat atataattta tatataacat attttatata catatataat	660
ttatatataa tatatattta catatacata tataattttt atataatata aaatatttct	720
atatacatat ataattttta tataatataa aatatttcta tatacatata taatttttat	780
ataatatata tttctatata catgtctaatt ttttatataa tatatatttc tatatacata	840
tataattttt atataatata taatattttt atatacataa tttttatata atatatattt	900
acatacatat atataatttt tatataatat atattttatat atacatatat aattttttaca	960
taatatatat tatatatata tatataattt atatacaaca tataatatat acatatataa	1020
tttatataca acatataata tttatgtata catatataat gtatacaca tatataatat	1080
ttatatatac atatataatt tatatgtaat atatacatat ataatttata tgtaatatat	1140
atacatgtat aatttatatg tagtatatat acatgtataa ttttatatgta gtat	1194

<210> 201
 <211> 487
 <212> DNA
 <213> Homo sapiens

3024-119-SEQ.ST25

<220>
 <221> misc_binding
 <222> (1)..(487)
 <223> MAR of chromosome 2 genomic contig; 14998429..14998915

<400> 201
 tagtatacat ttacacatac atgtataatt atatgtaata tataaatatth acatatataa 60
 ttatagataa tatatatthta catatacata tataattata tataaatatat aatgtttaca 120
 tatacatata taattatata taatatatat ttaaataatac atatacaatt atatataata 180
 tatatthta tatgcatata taattataga taatatatat ttacatatatac atatataatt 240
 atatataata tataatgtth acatatatac atataattat atataatata taththaaata 300
 tacatatata attatatata atatatatth acatatgcat atataattat agataatata 360
 taththacata tacatatata attatatata atatataata ththacatata catatatath 420
 gtatatataa tatataath ttacatatatac atatataatt tatatatath atatathata 480
 tatatta 487

<210> 202
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(421)
 <223> MAR of chromosome 2 genomic contig; 16562490..16562910

<400> 202
 tatatgaata tatatatgaa tatatacgta tatatgaata tatacatgta tgtatatatg 60
 aatatatgta tatatatgaa tatatatgta tatatgaata tatgtatata tatgaatata 120
 tatgtatata tgtatatata tgaatatata tgtatatatg tatatatatg aatatatatg 180
 tatatatgta tatatgtata tatatgaata tatatgtata tatgaatata tatgaatata 240
 tatgtatata tatgaatata tatgaatata tgtgtatata tatgaatata tatgtatata 300
 tatgaatata tgtatatata tatgaatata tatgtatata tgtatatatg aatatatatg 360
 tgtatatgaa tatatatatg aatatatatg tgtatatgaa tatatatgaa tatatatgtg 420
 t 421

<210> 203
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(479)

<223> MAR of chromosome 2 genomic contig; 21592301..21592779

<400> 203

tatatgtata cgtatataat atattatata ttatatatcg gtacgtatat atgtaatatata	60
taatgtatat gtacacgtat ataatatata atatattata tacgtatacg tatacattat	120
atattacata tatacgata tacgtatata aaatatatgt atatattata tatacgata	180
taatatatat tatataatat ataatatata cgtatacata taatatatta tatatacata	240
ttatatatta tatatttaaa ttatatatta tatcatatat aatatatatg atataatatata	300
taatatacat atattacata atatataatta tatacatata catatataat atataatatata	360
ttatatatacat atacatatat aatatataat atattatata catatacata tataatatat	420
aatatattat atacatatatac atatataata tataatatat tatatatata tattatata	479

<210> 204

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(870)

<223> MAR of chromosome 2 genomic contig; 22557584..22558453

<400> 204

tataatatat aatatacata atatgtatat tttatacaca atataaataa tatacataac	60
atatatgtat attttatata tgtatatattt atatatatatt tatatatattt atatatatgt	120
atattttata tataatatat atattgtata taataatatata taatatatta tattatatat	180
aatatatatata atatatatat aaatatatat tatatatataat atgtataata tataatatatt	240
tatatataat atgtataata tatattttat atataataat atgtacaata tatattttat	300
atataataat atgtacaata tatattttat atataataat atgtacaata tatattttat	360
gtataaatatg tataatatat attttatgta taatatatat tttatgtata atatatatatt	420
tacgtatatt ttatatataa tatataatat tttatatata atatataaca ttttatatat	480
aatatataat attatatata ttatatattt tatatatataat atatataaat atatatatatt	540
tatatataat atattttata tataatatat ataaatatat atatttatata taatatattt	600
tatatataat atattttata tataatatat aatatatttt atatattata tataatatat	660
tatatattat atataatatata ttatatataa tatataatat ataatatatt atatataata	720
tataatatat aatatattat atataatatata taatatataa tatataatat attatatata	780
atatataata tgtaatatat aatatattt atataatatata taatatataa tataatatatt	840
tatatataat atataatatata taatatataa	870

3024-119-SEQ.ST25

<210> 205
 <211> 1086
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1086)
 <223> MAR of chromosome 2 genomic contig; 30591960..30593045

<400> 205
 gtatatataa tatatatattat attatgttat atattatgta gactatgtat taaatatatg 60
 tatatatattat atataaatat ataatatata ttataatatt ataattataa atatatttat 120
 aatatatttt tctaaatatt tatatatattat atattatattc taatgatata taataaatat 180
 atttctaata tatttttatat ttataaatat ttatatataa ttatatattt tatatatact 240
 atatattata tatttatatat ttatatataa ctatatatta tatagtatat attttatata 300
 tactatatat tatatatattat atattttata tatactatat attatatatt atatatttta 360
 tatatactat atactattta ttatatattt tatatatact atatactatt tatttatatat 420
 ttatatataa ctatatatta ttatttatat attttatata tactatatat tatatatattat 480
 atattttata tataatatat atttattata tatttttatat attatatata ttatatatta 540
 tatattttata tatttatataa tatatatattat atatagaata tataatatat attatatata 600
 atataatata atatatatatta tataaaatatt atataatata taaaatatat aatatatgat 660
 atatataata tatattctat atttatacat atatattttaa tatttatatta atatataatt 720
 atatattatc atatgtaata atagatataa tatgtaatat ataaattata attatatatt 780
 aatatttatat attatttaatt atgtatatatt acacatatat taattattaa atatatatat 840
 ttaatatatt aaatattatg tattaaatat atataatata ttataaata ttttatatat 900
 aatatataca tatattaaca tatatgtata tatgtatata ttatatataa cattatatat 960
 attatgttac atatactata ttttatatgt tacatatact atatattata tgttacatat 1020
 aatatatata acatatatta taatatgtaa catatttatat ataacatata atatatagta 1080
 tatata 1086

<210> 206
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(406)
 <223> MAR of chromosome 2 genomic contig; 36233909..36234314

3024-119-SEQ.ST25

<400> 206
attataaata tatattatag atattagata ttatagatat aatatatata atatataatta 60
tagatattat agatatagat ataatagata ttatagatat tatagatata atatataatta 120
tagatattat agatataata tatattatag atattataga tataatatat attatagata 180
ttatagatat aatatatatt atagatataa tatatattat agatattata gatatagata 240
ttatagatat tatatatatt atagatataa tatatattat agatattata gatatagata 300
ttatagatat aatatatatt atagatatta tagatataat atatattata gatattatag 360
atataatata tattatagat ataagatata ttatagatat tacaga 406

<210> 207
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_binding
<222> (1)..(797)
<223> MAR of chromosome 2 genomic contig; 36271745..36272541

<400> 207
atataaacat atacgtatat acacatatat acaaatacat atatacatat attatatata 60
tgtatatata ttatattata catatattat atatataatta tattatacat atatacatat 120
acacataaac atattacata catatacaaa ttatacacat atacatatat acatatatgt 180
atatacatat attatatata aatatatgta tataaaatgt acattatata tacatatata 240
ttatgtataa ataatatata aaataaacat aatatatatt tatagatatg atatataata 300
tatatatgta tacatatata catatatgta tatataatgt acattatata tacataaaca 360
tcatatataa atgttatata tataatataa atatataata tatataatat atactttata 420
tactatatat aatatatata atatgatata acatatataa tatataactat atataatat 480
tactatatat actgtatat atatatataa taatatatac tatatatatac aaatataata 540
tacataatat aatatatact atatatataa tataatatat aatatagtat atatactata 600
tataataatt acatattata tattatacat tatatattat ataattatta tatataatta 660
tatattacat actttgtata taatgtaa atacattaga atatataatg tatatatatg 720
tacatatata atgtatatat gtatacatata tataaactat atataaacat tatattatat 780
aaacattata tataaac 797

<210> 208
<211> 423
<212> DNA
<213> Homo sapiens

3024-119-SEQ.ST25

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<220>
<221> misc_binding
<222> (1)..(423)
<223> MAR of chromosome 2 genomic contig; 36498521..36498943

<400> 208
tattatatta tatattttaat attatatatt taatatatta tatattttaat attatatatt    60
taatatatta tatattttaat attatatatt taatatatta tatattttaat attatatata    120
taatatatta tatattttaat attatatata taatattata tatataatat tatatatatta    180
atattatata tataatatta tatatataat atattatata tttagtatta tgtattttaat    240
atattatata tttagtatta tgtattttaat atattattta tttagtatta tatattttaat    300
atattattta tttagtatta tatattttaat atattatata tttaatatat tatatatatta    360
ttatatattg tatattttaat atattatata ttattatat attatatata attatatatt    420
taa                                                                    423

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<210> 209
<211> 304
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(304)
<223> MAR of chromosome 2 genomic contig; 37179891..37180194

<400> 209
gtgtatatat atcatatata ttatatcata tatatgtgta tatatatcat atattatattc    60
atatatatgt gtatatatat catatatata tcatatatgt gtatatatca tatatattat    120
atatcatata tgtgtatata tatcatatat tatatatcat atatatgtgt atatatcata    180
tatattatat atatctcata tgtgtatata tatcatatat aatatatatg tgtatatatc    240
atatatcata tataacatat atatgtgtat atatcatata tataacatat atcatatatg    300
tgta                                                                    304

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<210> 210
<211> 693
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_binding
<222> (1)..(693)
<223> MAR of chromosome 2 genomic contig; 38440448..38441140

<400> 210
tatatatattc ttatatattt atatataata tatattcttt tatatattat atatagtata    60
tattctttta tatattatat atagtatata ttcttttata tattatatat agtatatatt    120

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3024-119-SEQ.ST25

cttttatata ttatatatag tatatatatt tttatatatt atatatagta tatattcttt	180
tatatattat atatagtata tattctttta tatattatat atataatata tattctttta	240
tatatcatat ataatatata ttcttttata tattatatat aatatatatt cttttatata	300
ttatatatca tgtatatata atatacaaaa tatatataga ttttatatat agattattac	360
ataatagaat atatttatata ttatatataa tatatacata atatataata ttatatatga	420
tataatatat atcatatata tcatataata tatattatat atcatatatt atatataata	480
atatatagat tatatatataat tatatatata atatatataa ttatatatat tatctatata	540
tagataatat atataattat atataatata ttatatagat tatatatataat tatattatat	600
acaaaatcta tatataatat atatttatatt atatataata tacataacta tataaaaaat	660
ataatatata atatatatata tatataatat ata	693

<210> 211
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(471)
 <223> MAR of chromosome 2 genomic contig; 38887582..38888052

<400> 211	
aacatatata ctatatatat tatatactat attatatatt atatataaa acatatatac	60
tatatataat atataaacat attatattat acatgatata gataaacata tatattatat	120
ataatataga taaaatatgt tatatatataat ataatgtata gacatatatt atatatacat	180
atattctaca tatattatat atatattcta cacatattat attatatata catatattct	240
acatatatta tatatacata tattctacat atattatata tacatatatt ctacatatac	300
atatatacat atattatata tacatatatt atagatatat aatatataaa catatataat	360
attattatat ataatatata taataatatt atataatata taataatatt atatcttata	420
tataaataat atatatatatt tatatatata atattatata tatataatat a	471

<210> 212
 <211> 1221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1221)
 <223> MAR of chromosome 2 genomic contig; 43885944..43887164

<400> 212

3024-119-SEQ.ST25

catataaaca tatattatat gtaacatata aacatattat atgtaacata taatatataa	60
tatataaaca tatatTTTTat atattatatg ttacatataa tatataatat ataaacatat	120
attatatatt atatgtaaca tataatatat aatatataaa catatatttt atatataata	180
tataaacata ttttatatat aatatataaa catatTTTtat atataatat taaacatata	240
ttttatatat aatatataaa catatTTTtat atataatat taaacatata ttttatataa	300
tatataaaca tataatatat ataatatata aaagtatata atataaatat atataatat	360
aacatatata atataaatat atataaaaata taaacatatg taatatataa acatatatta	420
tatataatat ataaacatat attatacgta caatatataa acatatattg tacgtacaat	480
atataaacat atattatacg tacaatatat aaacatatat tatacgtaaca atatataaac	540
atatattata cgtacaatat ataaacatat attatacgta caatatataa acatatatta	600
tacgtacaat atataaacat atattatacg tacaatatat aaacatatat tatacgtaaca	660
atatataaac atatattata cgtacaatat ataaacatat attatacgta caataaacat	720
atattatacg tacaatatat aaacatatat tatacgtaaca atatataaac atatattata	780
cgtacaatat ataaacatat attgtacgta caatatataa acatatatta tatgtataat	840
atataaacat ataatatata atatattatta tatatatgtt tattatatat gtttatatat	900
tatatataac atatattatt atatttatata tgTTTTatata ttatatatta tataatatat	960
atgTTTTatatt attatatatt atataatat tatgTTTTata tattatatat tatataatat	1020
atatgTTTTat atatttatata ttatatataa tatatgTTTta tatattatat attatataat	1080
atatatgTTTt atatattata tatttatataa tatatatgtt tatatattat atatttatata	1140
atatatatgt ttatatatta tatattatat aatatatatg tttatatatt atataaataa	1200
taaacttaca ttttttatta a	1221

<210> 213
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(543)
 <223> MAR of chromosome 2 genomic contig; 45818200..45818742

<400> 213	
tatgtatata tacatatata tttatacatg tatatatgta tatatacata tatatttata	60
catgtatata tatacatata tttttatata tgtatatata tacatatata tttatacatg	120
tatatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta	180
tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta	240

3024-119-SEQ.ST25

tgtatatata catatatatt tatacatgta	tgtatatata catatatatt tatacatgta	300
tgtatatata catatatatt tatacatgta	tgtatatata catatatatt tatacatgta	360
tgtatatata catatatatt tatacatgta	tgtatatata catatatatt tatacatgta	420
tgtatatata catgtatatatt tatacatgta	tgtatatata catgtatatatt tatacatgta	480
tgtatatata catgtatatatt tatacatgta	tgtatatata catgtatatatt tatacatgta	540
tac		543

<210> 214
 <211> 463
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(463)
 <223> MAR of chromosome 2 genomic contig; 47055478..47055940

<400> 214	
atacacat atatacatat atacacatata	tacacacata tttacatata 60
tacacacata tatacatata tacatatata	cacatatata catgcataca catatatata 120
tatatacaca catatacaca catatatata	tatatacaca tatatacaca tatacacata 180
tatacacaca tatacatata tacacatata	tacatatata catatatata cacatatata 240
catatatata tatacacata tatacacata	tacatatata cacatatata cacatatata 300
catatatata catatatata tatatacaca	tatatacaca catatacaca tatatacata 360
tatacatatg tatacacata tatacatatg	tatacacata tatacacata tacatatata 420
catacacata tatacgtata tatgtgtata	tatacacata tac 463

<210> 215
 <211> 2482
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(2482)
 <223> MAR of chromosome 2 genomic contig; 47492696..47495177

<400> 215	
aatatatata aaatatatta ttttctatgt	aatatataga atatataaaa tatattctat 60
atatttatata gaatatatat tttataatat	atattatttta tatatttttta tatattttata 120
ttattttatat atttatatat aatttatata	atttatacat ataattttata tataattttat 180
ataaattata tatataattt atatataatt	tatatataat ttatatataat tatatatata 240
atttatatat aatttatatg atttttatat	ataattttata tataattttat ataatttttta 300

3024-119-SEQ.ST25

tatataat	ttatata	ttatata	ttatata	ttatata	ttatata	360
aat	ta	aat	tata	atata	tata	420
atata	tata	ttata	tata	att	aat	480
att	ata	cata	ata	tata	atata	540
tata	ttata	aat	att	atg	ta	600
atata	tata	atata	tata	att	aat	660
ttata	atata	ata	tatt	ttata	atata	720
tata	att	ttata	tata	tatt	ttata	780
ttacata	ttatt	att	aat	ttata	att	840
aat	atatt	att	aat	tatt	ta	900
ata	ta	tata	tata	aaa	ctata	960
tata	att	atatt	tata	tat	aat	1020
atata	ttt	tata	at	tata	tata	1080
aat	gtata	ttt	tata	atg	att	1140
atata	tatt	aat	ctacata	tata	ata	1200
atat	ctata	ata	ttata	aat	ctata	1260
ata	cttt	att	aat	tata	ttt	1320
tata	tatt	ata	aat	gtata	tata	1380
atata	aat	tata	ttt	tata	aat	1440
ttt	att	ata	aat	ttt	ata	1500
tata	tata	ttt	tatt	ata	aat	1560
at	gtata	tata	ttt	tatt	ata	1620
att	tata	at	gtata	tata	ttt	1680
ata	att	att	tata	ttt	tatt	1740
tata	tatt	ata	gtata	tata	ttt	1800
atata	at	gtata	tata	ttt	tatt	1860
ttt	tatt	ata	aat	gtata	tata	1920
tata	tata	ttt	tatt	ata	aat	1980
aat	gtata	tata	tatt	ata	aaa	2040
atatt	tata	tatt	tata	aaa	gtata	2100
gtata	tatt	ata	aat	gtata	tata	2160

3024-119-SEQ.ST25

atattatata taatgtatat tatataatat atattatata ttataatat taatatacat	2220
tatatattac atattatata taatatatta tatattatat attacatatt atatataata	2280
tattatatat tatattaaat atatatttta tatattatat attatatatt atataaaata	2340
tatatattat atattatata aaatatatat atattatatt atatattata ttaaatatat	2400
attttatata taatatatat aatatataat atataaaata tatattatat attatatata	2460
aattatatat attatatata aa	2482

<210> 216
 <211> 539
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(539)
 <223> MAR of chromosome 2 genomic contig; 47561069..47561607

<400> 216	
aacagtaata taccactaat atataataat atataacagt aatatatcat taatatataa	60
tatatcatta gtatataata ttaatatata ttaatatata atatatcata tacaatatta	120
atatatatta atatataata atatattatt aatgtataat agtaatataa tatattatca	180
atatatatta ctaatatata ataatatatc gttatatat aatagatcat taatatataa	240
tggttaatata ttatgaatag ataatatatc agtatataat attaatatat taatatatta	300
tatattattt aatatatat aatatattaa taaataatta tatattaata tagcaatata	360
ttaatatatg actgtattat attattaata tataacaata tattatatat tatataataa	420
tttattatat aatatataat aatatattat atattatata acatattaat aatacataat	480
aacattaata atatataata atgttaatat attattatat tatatattaa tatataata	539

<210> 217
 <211> 336
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(336)
 <223> MAR of chromosome 2 genomic contig; 52853648..52853983

<400> 217	
tatatacata aaatatatat attttatata tatacataat atatatatgt atattttatg	60
tatatatcta taatatatat aatataataa aatatacata tatattttat atatataata	120
tatacatata aaatatatat acataaaata tacatgtata ttttatgtat atataatata	180
tatataaaat atacatgtat attttatata tataatatat atgtataatt aatatacatg	240

3024-119-SEQ.ST25

tatgttatat atattacatg tatattatat ataatatata tataaatttt aaatttagtg	300
tatattacat gtatattata tataatatat gtatat	336

<210> 218
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(406)
 <223> MAR of chromosome 2 genomic contig; 54866263..54866668

<400> 218	
tacgtatata aaaatgtata ttacatata taaaataaat attttatata cgtatataaa	60
atatatattt attttatata cgtatataaa atatttattt tatatatgta tataaaatat	120
ttattttata tacatgtata ttaaatatat atttatatat gtatataaaa atatatatta	180
tatacatgta tataaaatat atatttatata tgtatataaa aatatatatg tatataaaat	240
atatatatta tatagatata taaaatatat atttatataga tatataaaat atatatatta	300
tatagatata taaaatatat atatttatata gatataataa atatatatat tatatagata	360
tataaaatat atatattata tagatatata aaatatatat attata	406

<210> 219
 <211> 1452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1452)
 <223> MAR of chromosome 2 genomic contig; 55113305..55114756

<400> 219	
ataatatata atatatttg tatattatat tatttatatat tatatattat taaatatata	60
tatttatatta tatattatat aatatatatt atatataata atatagaata tataattata	120
tatttatatta tatattatat aatatatatt atatataata atatagaata tataattata	180
tatttatacta tatattatat aatatatatt atatataata atatagaata tataattata	240
tatttatataa tatgtgaata atgtaatatata taatttatatt atttacatat tatataatat	300
ataattatat tatataatat ataattatat tatttgtata ttatatataa catatacatt	360
atatttatata taatataatt atatataatt aattataaat taatttatata taatttatata	420
atataatata taatatacat aatatataat atataatata taatatacat aatataatat	480
atatttatata taatataata tatataatat aatataatat aatgtataat ataattatat	540

3024-119-SEQ.ST25

attatatata	atatataatg	ttatataatt	atattatatt	atataattaa	ttatatgtaa	600
ttaatataat	ataattatta	tatataat	tttatataat	ataatatata	attatatataat	660
ataatatataat	tatattatat	tatataatat	atatatatta	tataatataa	tataattata	720
ttatataatt	atataatata	atataattat	atattatatt	atataataaa	tataattata	780
taatataata	tgattatata	atatattatg	tatattatat	attatatatt	gtattatgta	840
tattatatata	tatatattat	gtatattata	tattatgtat	attatatatt	atgtatatta	900
tatattatat	attatatatt	gtataatata	ttatgtatgt	tatatataat	ataaattata	960
ttatatatta	tgtatattat	atataaatta	tattatatata	tatgtatatt	atatataata	1020
taaagtatat	attatgtata	ttatatataa	tataaagtat	atattatgta	tattatatata	1080
aatatataagt	atatattatg	tatattatat	ataatataaa	gtatatatta	tgtatattat	1140
atataatata	aagtatatata	tatgtatatt	atatataata	taaagtatat	attatgtata	1200
ttatatataa	tataaagtat	atattatgta	tattatatata	aatatataagt	atatattatg	1260
tatattatat	ataatataaa	gtatatatta	tgtatattat	atataatata	aagtatatata	1320
tatgtatatt	atatataata	taaagtatat	attatgtata	ttatatataa	tataaagtat	1380
atattatgta	tattatatata	aatatataagt	atatattata	tgttataaat	tatatattgt	1440
tatatattat	at					1452

<210> 220
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(502)
 <223> MAR of chromosome 2 genomic contig; 56350637..56351138

<400>	220	
atatattata	gaaatataaa	tatatagata tatctatata ttatagaaat ataaatatat 60
agatatatct	atatattata	gaaatataaa tatatatagata tatctatata ttatagaaat 120
ataaatatat	agatatacct	atatattata gaaatataaa tatatatagata tacctatata 180
ttatagaaat	ataaatatat	agatatacct atatattata gaaatataaa tatatatagata 240
tatctatata	ttatagaaat	ataaatatat agatatatct atatattata gaaatataaa 300
tatatagata	tatctatata	ttatagaaat ataaatatat agatatatct atatattata 360
gaaatataaa	tatatagata	tatctatata ttatagaaat ataaatatat agatatatac 420
aacatatatg	ttacatatata	tatattatat atctatatata ctatataaca ttatatatct 480
atatatctat	ataacatatata	ta 502

3024-119-SEQ.ST25

<210> 221
 <211> 794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(794)
 <223> MAR of chromosome 2 genomic contig; 57051633..57052426

<400> 221
 aactatatat actatattat atagttatac tatatatact atattatata gttatataac 60
 tattatataa ctgtattata tagttatata actattatat aactgtatta tatagttata 120
 taactattat ataactgtat tatatagtta tataactata ttatataact gtgttatata 180
 gttatatatt atataactat attatataac tgtattatat agttatatat tatataacta 240
 tattatataa ctgtattata tagttatata ttatataact atattatata actgtattat 300
 atagttatat attatataac tgtattatat agttataaaa ctatattata taactgtatt 360
 atatagttat aaaactacta tataactgta ttatataatt ataaaattat actatataac 420
 tgtattatat agttataaaa ctataactata taactgtatt atatagttat aaaactatac 480
 tatataactg tattatatag ttataaagct atactatata actgtattat atagttatat 540
 aactatacta tataactgta ttatatagtt ataaaactat actatataac tgtattatat 600
 agttataaaa ttatattata taactgtatt atatagttat ataactatat tatataactg 660
 tattatatag ttatataact atattatata agtgtattat atagttatat aactatatta 720
 tataactgta ttatacagtt atataactat attatataac tgtattatat acttatataa 780
 ctatattata taac 794

<210> 222
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(300)
 <223> MAR of chromosome 2 genomic contig; 57069272..57069571

<400> 222
 acacatacat atatgtatat atgcacacac atatatatgt atatatacac atacatatat 60
 gtatatatac atatatgtat atacgcacat acatatatgt atatatacac gtacatatat 120
 gtctctatat atacacatac acatatgtat atacatatat gtgtatatat acacaatcat 180
 atatgtatat acatatatac acatatatac aaacatatat gtatatatac atatgtatat 240
 acatatatac acatatatac aaacatatat gtatatatac atatgtatat acatacacia 300

3024-119-SEQ.ST25

<210> 223
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(370)
 <223> MAR of chromosome 2 genomic contig; 57235143..57235512

<400> 223
 tatttttata tataactata tatattttat atataaatta tatatatgat catatatata 60
 atcatatata taatcatata tgattatata tgatcatata tatatttata tatataatta 120
 tatatactta tatataatta tatatatatt tatatatata attatgtata cttatatata 180
 tttatatata taattatata tacaatttat atatataatt atatataatt tatatataat 240
 tatatatata aattatatat aagtatatat aattatatat atgtttatat ataattatat 300
 atataaatga tatgtataat atataactat atataattat atataaatat atatatagat 360
 tttatatata 370

<210> 224
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(306)
 <223> MAR of chromosome 2 genomic contig; 57693125..57693430

<400> 224
 tacgtatata cacgtataaa tataaatata tacatgtata tacgtatata catgtataaa 60
 tataaatata tatatgtata tacgtatata catgtataaa tatatatatg tatatacgta 120
 tatacatgta taaatatata tatatgtata tacgtatata catgtataaa tatatataca 180
 tgtatatacg tatgttgtgt atacatacaa atctgtacat atatacatat atgttgtgtg 240
 tatatataca tctatacatg tgtatgcgta tatatgtata tgtatatata gtatatataa 300
 tacatg 306

<210> 225
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(500)

<223> MAR of chromosome 2 genomic contig; 59810331..59810830

<400> 225
 tttattatat gtaatatata ttgtattatt atatataatta tatataatat atattgtatt 60
 attatatata ttatatataa tatatatattgt attattatat atattatata taatatatat 120
 tgtattatta tatatatatt atataatata tattgtatat tatatatatt atatattata 180
 ttattatata ttatatatat tatattatta tatattatat attatatata ttatattata 240
 tattatatat tatattatat atattatatt atatattata tattatatta tatatattat 300
 attatatatt atatattata ttatatatat tatattatat atattatata ttatatatta 360
 tatatattat atattatata ttatatatat tatatattat atataatata tattatatta 420
 ttatataata ttatatatta tatatattat atattatata taatatatat tatattatta 480
 tataatatta tatattatat 500

<210> 226
 <211> 565
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(565)
 <223> MAR of chromosome 2 genomic contig; 59974589..59975153

<400> 226
 atatatgtat aatatgtata tatgtatata ttatgtatat gttatatatg taatatatgt 60
 atgtatatat tatatatcat atataatata taatgtgtat atatgtatat atgtatgtat 120
 acatgtatat actatgtata tattgtatat attatatatg tatatataca tatacatata 180
 taatatatac atatattata tacaatatat acatgtatat tatatacgat atatacatat 240
 atattatata caatatatac atagtatata aatgtataca tacatacata tatacatatt 300
 atatatgtat atatgtatac ataaatgtat atataatata tatacatata taaatgtata 360
 catacgtaca tatacgtata tgtatatgca tatatgtata tatgtgcata catatatatg 420
 tatatacata tatgtacata tgtacatata cgtatatatg tacatatgta catatacgta 480
 tatatgtaca tatgtacata tacgtatata tgtacatatg tacatatacg tatatatgta 540
 catatgtaca tatatacata tatat 565

<210> 227
 <211> 427
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(427)

<223> MAR of chromosome 2 genomic contig; 60605573..60605999

<400> 227

tatataatgt atataatgga tatagatata gatatagata tatattttat ataatatata	60
ttatatatta tatataatat atgttatata tattatatat tttatataat atatatatta	120
tataaattat atatataata tatataatat atatattata tatattttat ataatatata	180
tttaattatta tctattatat attttatata atatatattt tatataatat ataatatata	240
atatatattt tacataatat ataatatata atacgtatta tatataatat ataatacgta	300
ttttatataa tatataatac gtatttatata taatacgta tatatattat ataatatata	360
atacgatta tataatatata gtaattatat tttattataa tacgtattat atattatata	420
atatata	427

<210> 228

<211> 1199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1199)

<223> MAR of chromosome 2 genomic contig; 61229949..61231147

<400> 228

gtatacatat ataaagtgt tatataatgt atatacatat atacatatat aaagtatata	60
tataatatat acatatataa agtatatata taatatatac atatataaag tatatataat	120
atatacatat ataaagtata tataatatat acatatataa agtatatata tcatatatac	180
atatataaag tatatatata atatatacat atatacatat ataaagtata tataacatat	240
atacatatat aaagtatata taacatatat acatatataa agtatatata taatatatac	300
atatatacat atataaagta tatataacat atatacatat atacagtata tataacatat	360
atacatatat acagtatata taacatatat acatatatac agtatatata acatatatac	420
atatatacag tatatataac atatatacat atatacatga agtatatata acatatatac	480
atatatacat gaagtatata taacatatat acatatatac atgaagtata tataacatat	540
atacatatat acatgaagta tatataacat atatacatat atacatatat aaagtatata	600
taacatatatac atatatacat atataaagta taacatatatac atatatacat atataaagta	660
tatataatat ataacatata catatataaa gtatatataa tatataacat atacatatat	720
aaagtatata taatatataa catatacata tataaagtat atataatatata tacatatata	780
catatataaa gtatatataa tatatatata catatataaa gtatatataa tatatatata	840
tatatataata tataaagtat atataatatata tatacatata taaagtatat ataatatata	900

3024-119-SEQ.ST25

tacatatata catatataaa gtatatataa tatatatata tatatacata tataaagtat	960
atataatata tatacatata tacatatata aagtatatat aatatatata catatatata	1020
tatataaagt atatataata tatatacata tatacatata taaagtatat ataatatata	1080
tacatatata catatataaa gtatatataa tatgtatata tatatacata tataaagtat	1140
atataatgta tatacatata tacatatata aagtatatat ataatatgta tacatatat	1199

<210> 229
 <211> 454
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(454)
 <223> MAR of chromosome 2 genomic contig; 62181058..62181511

<400> 229	
tatatatcat atattatata tgatatatat tatgtatata atacatatta tatataataa	60
atatttatta tatatgatat atattatgta tataatacat attatatata ataaatatat	120
attatattat atataataaa tatatattat attatatata atatataattt atatataaat	180
atattatata taaatatata ttatatataa aatatttata tattatatat aaatatatat	240
tatatataaa tatttatata ttatatataa atattttatat attatatata aatatttata	300
tattatatat aaaatatatt atatataatta tatatattat atattatata taatatattt	360
aatatataat atataaacat atattatata taatatataa acatatataa atatatttat	420
atataataga taaaaatata tataatatat ataa	454

<210> 230
 <211> 658
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(658)
 <223> MAR of chromosome 2 genomic contig; 62190919..62191576

<400> 230	
tatatacaca actatatata taactatata tatacaacta tatatacaac tatatatata	60
actatatata taactatata taactatata tataactata tataactata tatataacta	120
tatatataac tatatataac tatatatata actatatata actatatata actatatata	180
taactatata tataactata tatataacta tatatataac tatatatatact atatataata	240
ctatatatat ataactatat atataactat atatataata ctatatataa ctatatatat	300
ataactatat atataactat atatataata ctatatatat aactatatat atataactat	360

3024-119-SEQ.ST25

atatataact atatatatat aactatatat aactatatat atataactat atatataact	420
atatatatat aactatatat ataactatat atatataact atatatatataa ctatatatat	480
ataactatat atataactat atatataact atatatatataa ctatatatat ataactatat	540
atataactat atatatatataa ctatatatat aactatatat ataactatat atataactat	600
atatatatataa ctatatatat aactatatat atataactat atatataact atatatat	658

<210> 231
 <211> 1486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(1486)
 <223> MAR of chromosome 2 genomic contig; 62384127..62385612

<400> 231	
attatatcta atctattata tattatatct aatacatatt atatctaadc tattgtatat	60
tatatctaata atataatata ttatatataa tatattatat attatatatt atatacaata	120
tattatatat tatataatat ataatatatt atatataata tattatatct aatatattac	180
atatttatatc taatctatta tagatataat atgtaatata ttatatatta tatctaataag	240
atatttagata taatatataa tatattatta atataatata ttagatataa tatataatat	300
aataatatat aatatatatt attggaata tataatatat aattaataat atatattata	360
tataattatt atgaataata tatcatatat aatatctagt atattatata ttaataacat	420
ataaatatta tattaataat aaataacata ttaatatatt attaataata tataatatac	480
taatattata ttaataatat ataatatatt aatatattat taataatata taatatatac	540
atatttatatt aataatatat aatatataat tattatatata ataatatata atataactat	600
attatatataa taatatataa tataactata tattaagaat atataatata ctaatatatt	660
aagaatatat aatatataat tattatatata ataatatata ttatatataa taatatatta	720
attattatta attaatattt aataattata taatatattg tatattaata ttatcaattt	780
aataatattg attatatatt atatattata tattatatat tatatatatt atattatata	840
ttatatatta ataatatata ttagatataa tataatatat taataatata taagatataa	900
tataatatat taataatata tattagatat aatatatat attaataata tatattagat	960
ataatatatat atattaataa tatatatatt atataatat atatattaat aatatatatt	1020
agatgtaata taatatatta ataatatata ttagatgtaa tataatatat taataatata	1080
tattagatgt aatatatat attaataata tatattagat gtaatatatat atattaataa	1140
tatatattag atgtaatata atatattaat aatatattat agatgtaata taatatatta	1200

3024-119-SEQ.ST25

ataatatata ttagatgtaa tataatatat taatatatat tagatgtaat ataatatatt	1260
aataatatat attagatata atataatat ttaataatat attagatata atataatat	1320
ttaataatat ataagatata atataatat ttaataatat ataagatata atataatat	1380
ttaataatat ataagatata atataatat ttaataatat atattagata tataatatat	1440
taataatat tattagatat ctaatatcta ttagatatct aataga	1486

<210> 232
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(333)
 <223> MAR of chromosome 2 genomic contig; 62538649..62538981

<400> 232	
ttatatatat tatatatata tttttatat atatattata tatatatattt atatatatat	60
tatatatata ttttatatat atattatata tatattttat atatatatta tatatatatt	120
ttatatatat tatatatata ttttatatat attatatata tttttatat atatattata	180
tatatatttt atatatatat tatatatata ttttatatat atattatata tatattttat	240
atatatatta tatatatatt ttatatatat attatatata tttttatat atatattata	300
tatatatttt atatatatat tatatatata ttt	333

<210> 233
 <211> 480
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(480)
 <223> MAR of chromosome 2 genomic contig; 63240325..63240804

<400> 233	
tatatataaa atatatatatt tttaaatata aaatatatat atattttaat attaatatat	60
atatatttta atatataata tatatatatt atattttata tataaaatat atatattata	120
tattttatat ataaaatata tatattatat attttatata ttaaaatata tttttatat	180
attttaatta ttaaaatata tatattatat attttaaata taaaatatat atattatata	240
ttttaatata taaaatatat atattatata ttttaatat taaaatatat atattttata	300
tttatatata taaatatata tatttatatat tttaatatat aaaatatata tatttatatat	360
tttaatatat aaaatatata tatttatatat tttaatatat aaaatatata tatttatatat	420

3024-119-SEQ.ST25

tttaatatat ataaaatata tatattatat attttatatata tattaaatat atattttata 480

<210> 234
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(302)
 <223> MAR of chromosome 2 genomic contig; 63935480..63935781

<400> 234
 atatatataa atatatatat aattatatat agatatatat aattatatat agatatatat 60
 attctatatt ctatatatat ataatatata atatataaat tatatataga atatatatta 120
 tatataatat attatatata ttatatataa tatatatatt atatatatta tatataatat 180
 atatattata tatattatat ataatttata tatattatat atagaatatata tattatatat 240
 agaatataga atatatataa tatatataga atacagaata tatatagaat atagaatatata 300
 ta 302

<210> 235
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(407)
 <223> MAR of chromosome 2 genomic contig; 63935888..63936294

<400> 235
 tataatatat taatataata tatagacagt atataatatata atatacagac agtatataat 60
 atacagacag tatataatat ataattattat atataatatat atatataata ttatatataa 120
 tattatatta tatatattat ataattattat atattatatata taatatatgt aatattatat 180
 attatattat acataatatata ttatatataa tatattatatata ataattattat atatattata 240
 tataatatat ataataataa tattataata tataatatat aatagtagacag tatatattat 300
 atatataatt ctatatataa tatatagaat tctatctatt tataatatat atagaattct 360
 atatataata tataatatatc agaattctat atatattata tatagaa 407

<210> 236
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding

3024-119-SEQ.ST25

<222> (1)..(302)

<223> MAR of chromosome 2 genomic contig; 66958350..66958651

<400> 236
tattatatat attgtatata tatgtatatt atatatattg tatatataat gtatattata 60
tatattatat atatatgtat attatatata ttgtatatat atgtatatta tatatatattgt 120
atatatgtat atgtatatat gtatgtgtat atatatacac atatacacat atatgtgtat 180
gtatatatat gtgtgtatat acgtatatat acatatatac aattttttgta tatatacata 240
tatacacata tatatgtgta tgtgtatatata tatacacata tatgtgtgtg tatatacaca 300
ta 302

<210> 237

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(651)

<223> MAR of chromosome 2 genomic contig; 68307125..68307775

<400> 237
gatattatat attgtatata ttatatatgt atataatata ctattatata ttatatatgt 60
atataattttt attaatatat atatttatatt atatttatata ttatattata ttatattata 120
tatataatat taatattata tattattata tattatatta tattaatatt atatatatat 180
aatatatata atatatataa tagtattata tataatatat ataatagtat tatatattat 240
atatatatata tactattata tatattatat ataatagtat tatatatatt atatatataa 300
tactattata tataatatat actattatat aatatatata atactattat atatattata 360
tataatacta ttatatataa tatatataat actattatat ataatatata taatactatt 420
atatataata tatataatac tattatatat aatatatata atactattat atataatata 480
tataatacta ttatatataa tatatatatt atatataatt atattaatat ataatagtat 540
catatataat aatagtatat ataatatata atatatatat tatatatatt ataatagtat 600
atataacata taatatagta tatatattat atattatata taaaatattt a 651

<210> 238

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(367)

<223> MAR of chromosome 2 genomic contig; 68308243..68308609

3024-119-SEQ.ST25

<400> 238
 atatatatat atgagtcaac catacacata tatatatata atgtttatat atataatgta 60
 tatatatatat gtttatatat aatgtatatata tataatgttt atatatatataa tgtatatata 120
 taatgtttat atatataatg tatatatata atgtttatat atataatgtg tatatatatat 180
 gtttatatat ataatgtgta tatataatgt ttatatataa tgtgtatatata taatgtttat 240
 atatataatg tgtatatata atgtttatat atataatgtg tatatatatat gtttatatat 300
 ataatgtgta tatatatatat gtttatatat ataatgtgta tatatatatat gtttatatat 360
 ataatgt 367

<210> 239
 <211> 499
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(499)
 <223> MAR of chromosome 2 genomic contig; 410241..410739

<400> 239
 ataatatgta tatatatatt attatatatt atattacata ttatatatta tattacatat 60
 tatatatatta tatattacat attatatatt atattttata ttatatatta tatcatatat 120
 atgttatgca ttatataata cataatatat tatatatgat ataatatata ttatatatta 180
 ttatatataa tataattaat atattatgta ttatataata tatattatgt tataatatat 240
 aatatatatatt atataattat ataatatatt atgtattata taatatatat tatgtttataa 300
 tatattatat tatatatatt atatatatat tatatatata atgtatatatta tatataatac 360
 ataatatatt atatattata tattatttta tataatatat tatataatgt gatattatat 420
 ataatatatt atataacata gtatattata taatatatta tataatgtaa tatattatat 480
 attatataat atattgtat 499

<210> 240
 <211> 402
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_binding
 <222> (1)..(402)
 <223> MAR of chromosome 2 genomic contig; 31531..31932

<400> 240
 cacattatat atataaacat tatatatata cacattatat atataaacat tatatatata 60
 cacattatat atataaacat tatatatata cattatatat ataaacatta tatatacaca 120

3024-119-SEQ.ST25

ttatatatat aaacattata tatacaaatt atatataata acattatata tacaattat	180
atatataaac attatatata tacattatat atataaacat tatatatata cattatatat	240
ataaacatta tatatatata ttatatatat aaacattata tatatacatt atatataata	300
acattatata tatacattat atatataaac gttatatata tacattatat atataaacat	360
tatatgtata cattatatat ataacatta tatatatatg tg	402

<210> 241
 <211> 421
 <212> DNA
 <213> Homo sapiens

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